

**Daekyo Co., Ltd. and Subsidiaries**  
**Consolidated Financial Statements**  
**December 31, 2017 and 2016**

**Daekyo Co., Ltd. and Subsidiaries**  
**Index**  
**December 31, 2017 and 2016**

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## Independent Auditor's Report

(English Translation of a Report Originally Issued in Korean)

To the Board of Directors and Shareholders of  
Daekyo Co., Ltd.

We have audited the accompanying consolidated financial statements of Daekyo Co., Ltd. and its subsidiaries (collectively referred to as the "Group"), which comprise the consolidated statements of financial position as at December 31, 2017 and 2016, and the consolidated statements of profit or loss, consolidated statements of comprehensive income, consolidated statements of changes in equity and consolidated statements of cash flows for the years then ended, and notes to the consolidated financial statements, including a summary of significant accounting policies and other explanatory information.

### **Management's Responsibilities for the Financial Statements**

Management is responsible for the preparation and fair presentation of the consolidated financial statements in accordance with International Financial Reporting Standards as adopted by the Republic of Korea (Korean IFRS), and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

### **Auditor's Responsibilities**

Our responsibility is to express an opinion on the consolidated financial statements based on our audits. We conducted our audits in accordance with Korean Standards on Auditing. Those standards require that we comply with ethical requirements, and plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the consolidated financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the consolidated financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the consolidated financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

**Opinion**

In our opinion, the accompanying consolidated financial statements present fairly, in all material respects, the consolidated financial position of Daekyo Co., Ltd. and its subsidiaries as at December 31, 2017 and 2016, and its consolidated financial performance and its consolidated cash flows for the years then ended in accordance with Korean IFRS.

**Other Matter**

Auditing standards and their application in practice vary among countries. The procedures and practices used in the Republic of Korea to audit such financial statements may differ from those generally accepted and applied in other countries.

Seoul, Korea  
March 15, 2018

This report is effective as of March 15, 2018, the audit report date. Certain subsequent events or circumstances, which may occur between the audit report date and the time of reading this report, could have a material impact on the accompanying consolidated financial statements and notes thereto. Accordingly, the readers of the audit report should understand that there is a possibility that the above audit report may have to be revised to reflect the impact of such subsequent events or circumstances, if any.

**Daekyo Co., Ltd. and Subsidiaries**  
**Consolidated Statements of Financial Position**  
**December 31, 2017 and 2016**

| <i>(in Korean won)</i>                                | Notes      | 2017                   | 2016                   |
|---|------------|------------------------|------------------------|
| <b>Assets</b>   |            |                        |                        |
| <b>Current assets</b>                                 |            |                        |                        |
| Cash and cash equivalents                             | 4,5,7,8    | 60,251,798,959         | 96,847,068,258         |
| Financial deposits                                    | 4,5,7,8,32 | 20,688,270,244         | 12,121,398,451         |
| Trade receivables                                     | 5,7,9,44   | 21,354,580,944         | 22,111,470,948         |
| Other receivables                                     | 5,7,9,44   | 43,395,784,718         | 41,088,006,818         |
| Financial assets at fair value through profit or loss | 5,7,10     | 51,799,310,135         | 74,272,304,685         |
| Derivative financial instruments                      | 5,7,11     | 665,544,419            | 45,421,937             |
| Available-for-sale financial assets                   | 5,7,12     | 103,810,029,072        | 72,905,569,910         |
| Inventories   | 13         | 16,077,010,855         | 20,115,480,766         |
| Other current assets                                  | 14         | 4,178,718,312          | 4,041,559,742          |
|   |            | <u>322,221,047,658</u> | <u>343,548,281,515</u> |
| Non-current assets held for sale                      | 16         | -                      | 3,544,206,750          |
| <b>Non-current assets</b>                             |            |                        |                        |
| Financial deposits                                    | 5,7,32     | -                      | 300,000,000            |
| Long-term other receivables                           | 5,7,9,44   | 9,047,789,414          | 11,079,941,679         |
| Available-for-sale financial assets                   | 5,7,12     | 161,564,480,707        | 149,403,008,832        |
| Investments in associates                             | 15         | 17,070,564,749         | 6,595,105,227          |
| Property, plant and equipment                         | 17         | 190,747,027,330        | 190,863,369,097        |
| Investment properties                                 | 18         | 120,301,293,091        | 102,189,687,798        |
| Intangible assets                                     | 19         | 35,921,936,259         | 40,249,056,113         |
| Other non-current assets                              | 14         | 223,339,984            | 366,311,508            |
|   |            | <u>534,876,431,534</u> | <u>501,046,480,254</u> |
| <b>Total assets</b>                                   |            | <u>857,097,479,192</u> | <u>848,138,968,519</u> |

**Daekyo Co., Ltd. and Subsidiaries**  
**Consolidated Statements of Financial Position**  
**December 31, 2017 and 2016**

| <i>(in Korean won)</i>   | Notes       | 2017                   | 2016                   |
|--|-------------|------------------------|------------------------|
| <b>Liabilities</b>   |             |                        |                        |
| <b>Current liabilities</b>   |             |                        |                        |
| Trade payables   | 4,5,7,44    | 8,893,795,885          | 9,969,681,040          |
| Derivative financial instruments   | 4,5,7,11    | 193,705,899            | 1,065,085,697          |
| Other payables   | 4,5,7,20,44 | 69,781,081,449         | 77,029,698,421         |
| Borrowings   | 4,5,7,21    | 19,929,837,195         | 18,774,144,852         |
| Income tax payable   |             | 6,273,929,274          | 6,359,802,084          |
| Provisions   | 22          | 482,371,342            | 567,806,966            |
| Other current liabilities  | 23          | 46,163,726,751         | 47,128,785,234         |
|  |             | <u>151,718,447,795</u> | <u>160,895,004,294</u> |
| <b>Non-current liabilities</b>   |             |                        |                        |
| Other payables   | 4,5,7,20    | 10,952,134,552         | 9,585,919,505          |
| Borrowings   | 4,5,7,21    | 8,200,717,029          | 9,460,350,244          |
| Net defined benefit liability  | 24          | 8,796,328,695          | 5,281,342,941          |
| Deferred tax liabilities   | 25          | 497,386,934            | 119,648,054            |
|  |             | <u>28,446,567,210</u>  | <u>24,447,260,744</u>  |
| <b>Total liabilities</b>   |             | <u>180,165,015,005</u> | <u>185,342,265,038</u> |
| <b>Equity</b>  |             |                        |                        |
| Share capital  | 26          | 52,064,920,000         | 52,064,920,000         |
| Reserves   | 27          | 72,720,242,871         | 72,514,886,266         |
| Other components of equity   | 28,29,30    | (79,861,427,413)       | (74,918,987,086)       |
| Accumulated other comprehensive income   | 25          | 53,452,808,387         | 52,289,828,801         |
| Accumulated other comprehensive income relating to the non-current asset held for sale | 16          | -                      | 1,257,107,559          |
| Retained earnings  | 31          | 572,213,321,630        | 551,632,229,562        |
| <b>Equity attributable to owners of the Parent Company</b>                             |             | <u>670,589,865,475</u> | <u>654,839,985,102</u> |
| <b>Non-controlling interest</b>  |             |                        |                        |
| Non-controlling interest   |             | 6,342,598,712          | 7,956,718,379          |
| <b>Total equity</b>  |             | <u>676,932,464,187</u> | <u>662,796,703,481</u> |
| <b>Total liabilities and equity</b>  |             | <u>857,097,479,192</u> | <u>848,138,968,519</u> |

The above consolidated statements of financial position should be read in conjunction with the accompanying notes.

**Daekyo Co., Ltd. and Subsidiaries**  
**Consolidated Statements of Profit or Loss**  
**Years Ended December 31, 2017 and 2016**

| <i>(in Korean won)</i>   | <b>Notes</b> | <b>2017</b>            | <b>2016</b>            |
|--|--------------|------------------------|------------------------|
| <b>Sales</b>   | 6,33,44      | 812,203,103,598        | 820,717,373,381        |
| <b>Cost of sales</b>   | 35,44        | <u>651,339,590,134</u> | <u>654,713,696,850</u> |
| <b>Gross profit</b>  |              | 160,863,513,464        | 166,003,676,531        |
| Selling and administrative expenses                              | 34,35,44     | <u>115,378,593,639</u> | <u>123,156,826,326</u> |
| <b>Operating income</b>  | 6            | 45,484,919,825         | 42,846,850,205         |
| Other income   | 36           | 29,710,519,144         | 29,552,731,535         |
| Other expenses   | 37,44        | 21,810,050,780         | 20,442,410,233         |
| Share of profit of associates                                    | 15           | 594,520,526            | 865,216,300            |
| Finance income   | 38,44        | 2,018,002,725          | 1,930,181,518          |
| Finance costs  | 39           | <u>1,535,084,658</u>   | <u>1,148,086,800</u>   |
| <b>Profit before income tax</b>                                  |              | 54,462,826,782         | 53,604,482,525         |
| Income tax expense   | 40           | <u>12,843,983,573</u>  | <u>11,814,039,080</u>  |
| <b>Profit for the year</b>                                       |              | <u>41,618,843,209</u>  | <u>41,790,443,445</u>  |
| <b>Profit for the year attributable to:</b>                      |              |                        |                        |
| Owners of the Parent Company                                     | 31           | 41,740,965,066         | 42,557,838,536         |
| Non-controlling interests  |              | (122,121,857)          | (767,395,091)          |
| <b>Basic earnings per share</b>                                  | 41           |                        |                        |
| <b>attributable to the equity holders of the Parent Company:</b> |              |                        |                        |
| Basic earnings per share for ordinary shares                     |              | 466                    | 472                    |
| Basic earnings per share for preferred shares                    |              | 465                    | 471                    |
| <b>Diluted earnings per share</b>                                | 41           |                        |                        |
| <b>attributable to the equity holders of the Parent Company:</b> |              |                        |                        |
| Diluted earnings per share for ordinary shares                   |              | 466                    | 470                    |
| Diluted earnings per share for preferred shares                  |              | 455                    | 470                    |

The above consolidated statements of profit or loss should be read in conjunction with the accompanying notes.

**Daekyo Co., Ltd. and Subsidiaries**  
**Consolidated Statements of Comprehensive Income**  
**Years Ended December 31, 2017 and 2016**

| <i>(in Korean won)</i>   | <b>Notes</b> | <b>2017</b>           | <b>2016</b>           |
|--|--------------|-----------------------|-----------------------|
| <b>Profit for the year</b>   |              | <u>41,618,843,209</u> | <u>41,790,443,445</u> |
| <b>Other comprehensive income, net of tax:</b>                             |              |                       |                       |
| <i>Items that will not be reclassified to profit or loss</i>               |              |                       |                       |
| Remeasurements of the net defined benefit liability                        | 24,25,31     | 563,999,661           | (2,581,226,162)       |
| <i>Items that may be subsequently reclassified to profit or loss</i>       |              |                       |                       |
| Changes in the fair value of available-for-sale financial assets           | 25           | 1,526,946,281         | 2,035,022,822         |
| Other comprehensive income relating to the non-current asset held for sale |              | (1,671,720,870)       | 1,430,607,270         |
| Currency translation differences   |              | (702,180,502)         | (122,000,633)         |
| Share of other comprehensive income of associates                          |              | 70,447,759            | (1,073,839,883)       |
| <b>Other comprehensive income for the year, net of tax</b>                 |              | <u>(212,507,671)</u>  | <u>(311,436,586)</u>  |
| <b>Total comprehensive income for the year</b>                             |              | <u>41,406,335,538</u> | <u>41,479,006,859</u> |
| <b>Total comprehensive income for the year is attributable to:</b>         |              |                       |                       |
| Owners of the Parent Company   |              | 42,213,397,745        | 41,812,783,377        |
| Non-controlling interest   |              | (807,062,207)         | (333,776,518)         |

The above consolidated statements of comprehensive income should be read in conjunction with the accompanying notes.



**Daekyo Co., Ltd. and Subsidiaries**  
**Consolidated Statements of Changes in Equity**  
**Years Ended December 31, 2017 and 2016**

(in Korean won)

| Notes   | Attributable to owners of the Parent Company |                       |                            |  |   |                        |                          |                        |
|---|--|-----------------------|----------------------------|--|---|------------------------|--------------------------|------------------------|
|   | Share capital                                | Reserves              | Other components of equity | Accumulated other comprehensive income | Accumulated other comprehensive relating to the non-current asset held for sale | Retained earnings      | Non-controlling interest | Total equity           |
| <b>Balance at January 1, 2016</b>   | 52,064,920,000                               | 71,347,042,554        | (73,278,036,516)           | 51,714,109,601                         | -   | 533,460,489,924        | 8,668,268,749            | 643,976,794,312        |
| <b>Comprehensive income (loss)</b>  |  |                       |                            |  |   |                        |                          |                        |
| Profit (loss) for the year  | -  | -                     | -                          | -                                      | -   | 42,557,838,536         | (767,395,091)            | 41,790,443,445         |
| Changes in the fair value of available-for-sale financial assets            | -  | -                     | -                          | 1,990,174,416                          | -   | -                      | 44,848,406               | 2,035,022,822          |
| Currency translation differences  | -  | -                     | -                          | (159,301,733)                          | -   | -                      | 37,301,100               | (122,000,633)          |
| Remeasurement of net defined benefit liability                              | -  | -                     | -                          | -                                      | -   | (2,577,881,918)        | (3,344,244)              | (2,581,226,162)        |
| Share of other comprehensive income of associates                           | -  | -                     | -                          | (1,073,839,883)                        | -   | -                      | -                        | (1,073,839,883)        |
| Reclassification relating to the non-current asset held for sale and others | -  | -                     | -                          | (181,313,600)                          | 1,257,107,559   | -                      | 354,813,311              | 1,430,607,270          |
| <b>Transactions with owners</b>   |  |                       |                            |  |   |                        |                          |                        |
| Dividends   | 42   | -                     | -                          | -                                      | -   | (12,781,724,980)       | -                        | (12,781,724,980)       |
| Interim dividends   | 42   | -                     | -                          | -                                      | -   | (9,026,492,000)        | -                        | (9,026,492,000)        |
| Dividends of subsidiaries   | -  | (1,892,984)           | -                          | -                                      | -   | -                      | (985,974,042)            | (987,867,026)          |
| Issuance of shares of subsidiaries  | -  | 370,309,318           | -                          | -                                      | -   | -                      | 608,200,190              | 978,509,508            |
| Acquisition of treasury share   | 30   | -                     | (4,188,410,220)            | -                                      | -   | -                      | -                        | (4,188,410,220)        |
| Disposal of treasury share  | 30   | -                     | 799,427,378                | 2,532,537,816                          | -   | -                      | -                        | 3,331,965,194          |
| Stock options   | 29   | -                     | -                          | 14,921,834                             | -   | -                      | -                        | 14,921,834             |
| <b>Balance at December 31, 2016</b>   | <u>52,064,920,000</u>                        | <u>72,514,886,266</u> | <u>(74,918,987,086)</u>    | <u>52,289,828,801</u>                  | <u>1,257,107,559</u>  | <u>551,632,229,562</u> | <u>7,956,718,379</u>     | <u>662,796,703,481</u> |
| <b>Balance at January 1, 2017</b>   | 52,064,920,000                               | 72,514,886,266        | (74,918,987,086)           | 52,289,828,801                         | 1,257,107,559   | 551,632,229,562        | 7,956,718,379            | 662,796,703,481        |
| <b>Comprehensive income (loss)</b>  |  |                       |                            |  |   |                        |                          |                        |
| Profit (loss) for the year  | -  | -                     | -                          | -                                      | -   | 41,740,965,066         | (122,121,857)            | 41,618,843,209         |
| Changes in the fair value of available-for-sale financial assets            | -  | -                     | -                          | 1,452,916,982                          | -   | -                      | 74,029,299               | 1,526,946,281          |
| Currency translation differences  | -  | -                     | -                          | (360,385,155)                          | -   | -                      | (341,795,347)            | (702,180,502)          |
| Remeasurement of net defined benefit liability                              | -  | -                     | -                          | -                                      | -   | 566,560,652            | (2,560,991)              | 563,999,661            |
| Share of other comprehensive income of associates                           | -  | -                     | -                          | 70,447,759                             | -   | -                      | -                        | 70,447,759             |
| Reclassification relating to the non-current asset held for sale and others | -  | -                     | -                          | -                                      | (1,257,107,559)   | -                      | (414,613,311)            | (1,671,720,870)        |
| <b>Transactions with owners</b>   |  |                       |                            |  |   |                        |                          |                        |
| Dividends   | 42   | -                     | -                          | -                                      | -   | (12,768,742,350)       | -                        | (12,768,742,350)       |
| Interim dividends   | 42   | -                     | -                          | -                                      | -   | (8,957,691,300)        | -                        | (8,957,691,300)        |
| Dividends of subsidiaries   | -  | -                     | -                          | -                                      | -   | -                      | (891,420,847)            | (891,420,847)          |
| Issuance of shares of subsidiaries  | -  | (154,307,373)         | -                          | -                                      | -   | -                      | 84,363,387               | (69,943,986)           |
| Acquisition of treasury share   | 30   | -                     | (6,809,672,900)            | -                                      | -   | -                      | -                        | (6,809,672,900)        |
| Disposal of treasury share  | 30   | -                     | 359,663,978                | 1,178,998,944                          | -   | -                      | -                        | 1,538,662,922          |
| Stock options   | 29   | -                     | -                          | 688,233,629                            | -   | -                      | -                        | 688,233,629            |
| <b>Balance at December 31, 2017</b>   | <u>52,064,920,000</u>                        | <u>72,720,242,871</u> | <u>(79,861,427,413)</u>    | <u>53,452,808,387</u>                  | <u>-</u>  | <u>572,213,321,630</u> | <u>6,342,598,712</u>     | <u>676,932,464,187</u> |

The above consolidated statements of changes in equity should be read in conjunction with the accompanying notes.

**Daekyo Co., Ltd. and Subsidiaries**  
**Consolidated Statements of Cash Flows**  
**Years Ended December 31, 2017 and 2016**

| <i>(in Korean won)</i>  | Note | 2017                     | 2016                    |
|---|------|--------------------------|-------------------------|
| <b>Cash flows from operating activities</b>                   |      |                          |                         |
| Cash generated from operations                                | 43   | 104,027,306,650          | 90,801,405,997          |
| Dividends received  |      | 3,875,688,570            | 4,642,167,563           |
| Interest received   |      | 1,783,207,938            | 1,550,286,933           |
| Interest paid   |      | (1,033,623,877)          | (963,470,428)           |
| Income tax paid   |      | (15,706,436,415)         | (10,277,260,740)        |
| <b>Net cash inflow from operating activities</b>              |      | <u>92,946,142,866</u>    | <u>85,753,129,325</u>   |
| <b>Cash flows from investing activities</b>                   |      |                          |                         |
| Decrease in financial deposits                                |      | 11,801,957,835           | 7,799,624,763           |
| Proceeds from disposal of available-for-sale financial assets |      | 178,575,135,529          | 121,439,407,092         |
| Proceeds from disposal of non-current assets held for sale    |      | 2,744,184,250            | 331,750,000             |
| Decrease in other receivables                                 |      | 7,413,746,926            | 7,123,493,842           |
| Proceeds from disposal of investments in associates           |      | 1,212,000,000            | 348,000,000             |
| Proceeds from disposal of property, plant and equipment       |      | 2,329,391,940            | 289,642,415             |
| Grants from governments                                       |      | 179,224,707              | -                       |
| Increase in financial deposits                                |      | (20,083,477,693)         | (11,156,373,310)        |
| Acquisition of available-for-sale financial assets            |      | (205,492,695,196)        | (130,233,478,630)       |
| Increase in other receivables                                 |      | (7,746,670,118)          | (9,640,963,478)         |
| Investments in associates                                     |      | (11,000,000,000)         | (3,892,500,000)         |
| Acquisition of property, plant and equipment                  |      | (47,075,856,046)         | (34,615,239,918)        |
| Acquisition of intangible assets                              |      | (14,353,760,685)         | (12,327,992,469)        |
| Decrease in cash due to business acquisition                  |      | (815,181,294)            | -                       |
| <b>Net cash outflow from investing activities</b>             |      | <u>(102,311,999,845)</u> | <u>(64,534,629,693)</u> |
| <b>Cash flows from financing activities</b>                   |      |                          |                         |
| Disposal of treasury shares                                   |      | 557,182,496              | 1,220,421,160           |
| Issuance of shares of subsidiaries                            |      | 84,363,387               | 978,509,508             |
| Proceeds from borrowings                                      |      | 6,302,428,000            | 23,769,968,639          |
| Acquisition of treasury shares                                |      | (6,809,672,900)          | (4,188,410,220)         |
| Dividends of subsidiaries                                     |      | (891,420,847)            | (987,867,026)           |
| Dividends paid  |      | (21,726,433,650)         | (21,808,216,980)        |
| Repayments of borrowings                                      |      | (3,791,767,834)          | (24,471,292,405)        |
| <b>Net cash outflow from financing activities</b>             |      | <u>(26,275,321,348)</u>  | <u>(25,486,887,324)</u> |
| <b>Net decrease in cash and cash equivalents</b>              |      | (35,641,178,327)         | (4,268,387,692)         |
| <b>Cash and cash equivalents at the beginning of the year</b> |      | 96,847,068,258           | 101,204,520,321         |
| Exchange losses on cash and cash equivalents                  |      | (954,090,972)            | (89,064,371)            |
| <b>Cash and cash equivalents at the end of the year</b>       |      | <u>60,251,798,959</u>    | <u>96,847,068,258</u>   |

The above consolidated statements of cash flows should be read in conjunction with the accompanying notes.

# Daekyo Co., Ltd. and Subsidiaries

## Notes to the Consolidated Financial Statements

### December 31, 2017 and 2016

#### 1. General Information

Daekyo Co., Ltd. (the Company) and its subsidiaries (collectively referred to as the Group) are engaged in educational and cultural work. The Company was incorporated in December 1986, to engage in the publication, manufacturing and sales of home-school materials. The Company, as an education and culture company, provides various products and educational services such as the Noonnoppi education, pre-school education, publishing, educational institutions, home-based teaching, on-line education, and after-school teaching.

In February 2004, the Company listed its shares on the KRX KOSPI Market of the Korean Exchange. As at December 31, 2017, the majority shareholder, Daekyo Holdings Co., Ltd. owns 54.5% of the Company.

#### 1.1 Subsidiaries

| Subsidiaries   | Location  | Percentage of ownership (%) |                                  |                              |                          |                                  |                              | Closing Month | Major Business |
|--|-----------|-----------------------------|----------------------------------|------------------------------|--------------------------|----------------------------------|------------------------------|---------------|----------------|
|  |           | December 31, 2017           |                                  |                              | December 31, 2016        |                                  |                              |               |                |
|  |           | Controlling interest (%)    | Interest owned by subsidiary (%) | Non-controlling interest (%) | Controlling interest (%) | Interest owned by subsidiary (%) | Non-controlling interest (%) |               |                |
| Daekyo Edupia Co., Ltd.                                    | Korea     | 98.64                       | -                                | 1.36                         | 98.64                    | -                                | 1.36                         | December      | Education      |
| Daekyo Book Center Co., Ltd. <sup>1</sup>                  | Korea     | -                           | -                                | -                            | 100.00                   | -                                | -                            | December      | Book sales     |
| Daekyo Edu camp Co., Ltd.                                  | Korea     | 99.86                       | -                                | 0.14                         | 99.86                    | -                                | 0.14                         | December      | Education      |
| DK BUSAN Co., Ltd.   | Korea     | -                           | 100.00                           | -                            | -                        | 100.00                           | -                            | December      | Education      |
| DK ULSAN Co., Ltd.   | Korea     | -                           | 100.00                           | -                            | -                        | 100.00                           | -                            | December      | Education      |
| Daekyo CSA Co., Ltd.                                       | Korea     | 70.00                       | -                                | 30.00                        | 70.00                    | -                                | 30.00                        | December      | Education      |
| Daekyo New Development Investment Association <sup>4</sup> | Korea     | -                           | -                                | -                            | 80.00                    | -                                | 20.00                        | December      | Investment     |
| Daekyo America, Inc.                                       | USA       | 50.06                       | -                                | 49.94                        | 50.06                    | -                                | 49.94                        | December      | Education      |
| Daekyo Hong Kong Co., Ltd. <sup>2</sup>                    | China     | 47.89                       | -                                | 52.11                        | 47.89                    | -                                | 52.11                        | December      | Education      |
| Daekyo Malaysia Sdn. Bhd.                                  | Malaysia  | 100.00                      | -                                | -                            | 100.00                   | -                                | -                            | December      | Education      |
| Beijing Daekyo Co., Ltd.                                   | China     | 100.00                      | -                                | -                            | 100.00                   | -                                | -                            | December      | Education      |
| Shanghai Daekyo Co., Ltd.                                  | China     | 100.00                      | -                                | -                            | 100.00                   | -                                | -                            | December      | Education      |
| P.T Daekyo Indonesia                                       | Indonesia | 69.83                       | -                                | 30.17                        | 69.83                    | -                                | 30.17                        | December      | Education      |
| Daekyo Enopi Singapore PTE Ltd.                            | Singapore | 70.00                       | -                                | 30.00                        | 70.00                    | -                                | 30.00                        | December      | Education      |
| Daekyo Vietnam Co., Ltd.                                   | Vietnam   | 100.00                      | -                                | -                            | 100.00                   | -                                | -                            | December      | Education      |
| EYE LEVEL HUB LLC.   | USA       | 50.06                       | -                                | 49.94                        | 50.06                    | -                                | 49.94                        | December      | Lease          |
| Daekyo India Private Limited                               | India     | 100.00                      | -                                | -                            | 100.00                   | -                                | -                            | March         | Education      |
| Daekyo UK CO.,Ltd.   | UK        | 100.00                      | -                                | -                            | 100.00                   | -                                | -                            | December      | Education      |
| Changchun Daekyo Consulting Co., Ltd. <sup>3</sup>         | China     | 100.00                      | -                                | -                            | -                        | -                                | -                            | December      | Education      |
| Heungkuk Altoran Securities Private Investment Trust       | Korea     | 77.69                       | -                                | 22.31                        | 77.69                    | -                                | 22.31                        | December      | Investment     |
| Hyundai Advantage Private Equity 5                         | Korea     | 100.00                      | -                                | -                            | 100.00                   | -                                | -                            | December      | Investment     |

# Daekyo Co., Ltd. and Subsidiaries

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|  |       |        |   |   |        |   |   |          |            |
|--|-------|--------|---|---|--------|---|---|----------|------------|
| Truston Private Securities<br>Investment Trust 4 | Korea | 100.00 | - | - | 100.00 | - | - | December | Investment |
|--|-------|--------|---|---|--------|---|---|----------|------------|

<sup>1</sup>Daekyo Book Center Co., Ltd. was merged into the Company during 2017.

<sup>2</sup>Although the Company has less than 50% of the voting power in the investee, it is included in subsidiary as the Company has a right to appoint the majority of its Board of Directors.

<sup>3</sup>As Changchun Daekyo Consulting Co., Ltd. was newly established during 2017, it is included in a subsidiary.

<sup>4</sup>Daekyo New Development Investment Association was liquidated during 2017.

## 1.2 Summary of Financial Information of Consolidated Subsidiaries

Summary of financial position and comprehensive income of consolidated subsidiaries as at and for the years ended December 31, 2017 and 2016, is as follows:

| (in millions of Korean won)                             | December 31, 2017 |             |         | December 31, 2016 |             |         |
|---|-------------------|-------------|---------|-------------------|-------------|---------|
|   | Assets            | Liabilities | Equity  | Assets            | Liabilities | Equity  |
| Daekyo Edupia Co., Ltd.                                 | 5,219             | 10,042      | (4,823) | 5,556             | 9,222       | (3,666) |
| Daekyo Book Center Co., Ltd.                            | -                 | -           | -       | 5,304             | 4,353       | 951     |
| Daekyo Educamp Co., Ltd.<br>and its subsidiaries        | 15,689            | 2,334       | 13,355  | 14,570            | 2,413       | 12,157  |
| Daekyo CSA Co., Ltd.                                    | 14                | -           | 14      | 12                | -           | 12      |
| Daekyo New Development<br>Investment Association.       | -                 | -           | -       | 3,927             | -           | 3,927   |
| Daekyo America, Inc.                                    | 4,553             | 3,964       | 589     | 6,360             | 5,199       | 1,161   |
| Daekyo Hong Kong Co., Ltd.                              | 7,437             | 1,241       | 6,196   | 7,652             | 1,130       | 6,522   |
| Daekyo Malaysia Sdn. Bhd.                               | 1,749             | 1,036       | 713     | 1,658             | 1,058       | 600     |
| Beijing Daekyo Co., Ltd.                                | 250               | 370         | (120)   | 275               | 388         | (113)   |
| Shanghai Daekyo Co., Ltd.                               | 1,007             | 953         | 54      | 765               | 437         | 328     |
| P.T Daekyo Indonesia                                    | 1,599             | 2,761       | (1,162) | 1,617             | 2,302       | (685)   |
| Daekyo Enopi Singapore PTE Ltd.                         | 680               | 2,157       | (1,477) | 654               | 1,827       | (1,173) |
| Daekyo Vietnam Co., Ltd.                                | 347               | 259         | 88      | 397               | 283         | 114     |
| EYE LEVEL HUB LLC                                       | 23,747            | 25,174      | (1,427) | 27,055            | 28,241      | (1,186) |
| Daekyo India Private Limited                            | 627               | 96          | 531     | 726               | 143         | 583     |
| Daekyo UK CO.,Ltd.                                      | 561               | 100         | 461     | 896               | 26          | 870     |
| Changchun Daekyo Consulting Co.,<br>Ltd.                | 138               | 304         | (166)   | -                 | -           | -       |
| Heungkuk Altoran Securities Private<br>Investment Trust | 19,591            | 7           | 19,584  | 18,559            | 7           | 18,552  |
| Hyundai Advantage Private Equity 5                      | 9,760             | 148         | 9,612   | 9,056             | 55          | 9,001   |
| Truston Private Securities Investment<br>Trust 4        | 5,976             | 810         | 5,166   | 4,964             | 5           | 4,959   |

**Daekyo Co., Ltd. and Subsidiaries**  
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(in millions of Korean won)

|  | 2017   |               |                             | 2016   |               |                             |
|--|--------|---------------|-----------------------------|--------|---------------|-----------------------------|
|  | Sales  | Profit (loss) | Comprehensive income (loss) | Sales  | Profit (loss) | Comprehensive income (loss) |
| Daekyo Edupia Co., Ltd.                              | 10,392 | (987)         | (1,157)                     | 12,325 | (283)         | (361)                       |
| Daekyo Book Center Co., Ltd. <sup>1</sup>            | 1,784  | (331)         | (332)                       | 15,576 | (265)         | (265)                       |
| Daekyo Educamp Co., Ltd. and its subsidiaries        | 30,638 | 1,372         | 1,198                       | 29,309 | 2,278         | 2,138                       |
| Daekyo CSA Co., Ltd.                                 | -      | 1             | 1                           | -      | (1)           | (1)                         |
| Daekyo New Development Investment Association.       | -      | 643           | (1,430)                     | -      | 539           | 2,612                       |
| Daekyo America, Inc.                                 | 9,157  | (466)         | (573)                       | 9,028  | (900)         | (897)                       |
| Daekyo Hong Kong Co., Ltd.                           | 6,816  | 1,071         | 267                         | 6,613  | 953           | 1,148                       |
| Daekyo Malaysia Sdn. Bhd.                            | 1,954  | 126           | 113                         | 2,216  | 182           | 169                         |
| Beijing Daekyo Co., Ltd.                             | 6      | (13)          | (6)                         | 95     | (76)          | (74)                        |
| Shanghai Daekyo Co., Ltd.                            | 605    | (836)         | (869)                       | 443    | (1,155)       | (1,232)                     |
| P.T Daekyo Indonesia                                 | 879    | (1,168)       | (1,044)                     | 1,066  | (938)         | (946)                       |
| Daekyo Enopi Singapore PTE Ltd.                      | 1,279  | (597)         | (545)                       | 1,240  | (820)         | (839)                       |
| Daekyo Vietnam Co., Ltd.                             | 257    | (581)         | (597)                       | 227    | (690)         | (684)                       |
| EYE LEVEL HUB LLC.                                   | 3,338  | (396)         | (240)                       | 3,179  | (955)         | (1,000)                     |
| Daekyo India Private Limited                         | 190    | (452)         | (499)                       | 74     | (407)         | (410)                       |
| Daekyo UK CO.,Ltd.                                   | 91     | (390)         | (409)                       | 75     | (124)         | (287)                       |
| Changchun Daekyo Consulting Co., Ltd.                | -      | (273)         | (267)                       | -      | -             | -                           |
| Heungkuk Altoran Securities Private Investment Trust | -      | 735           | 1,067                       | -      | 385           | 318                         |
| Hyundai Advantage Private Equity 5                   | -      | 565           | 611                         | -      | (484)         | (542)                       |
| Truston Private Securities Investment Trust 4        | -      | 146           | 357                         | -      | (192)         | (150)                       |

<sup>1</sup>The information of profit or loss is financial performance before merger.

**1.3 Change in the Scope of Consolidation**

Subsidiary newly included in the consolidation for the year ended December 31, 2017:

| Subsidiary                            | Reason  |
|---------------------------------------|---|
| Changchun Daekyo Consulting Co., Ltd. | Newly acquired as Changchun Daekyo Consulting Co., Ltd. was newly established |

# Daekyo Co., Ltd. and Subsidiaries

## Notes to the Consolidated Financial Statements

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Subsidiaries excluded from the consolidation for the year ended December 31, 2017:

| Subsidiaries                                  | Reason                         |
|---|--------------------------------|
| Daekyo Book Center Co., Ltd.                  | It was merged into the Company |
| Daekyo New Development Investment Association | It was liquidated              |

## 2. Significant Accounting Policies

The principal accounting policies applied in the preparation of these consolidated financial statements are set out below. These policies have been consistently applied to all the years presented, unless otherwise stated.

### 2.1 Basis of Preparation

The Group maintains its accounting records in Korean won and prepares statutory financial statements in the Korean language (Hangul) in accordance with International Financial Reporting Standards as adopted by the Republic of Korea (Korean IFRS). The accompanying consolidated financial statements have been condensed, restructured and translated into English from the Korean language financial statements.

Certain information attached to the Korean language financial statements, but not required for a fair presentation of the Group's financial position, financial performance or cash flows, is not presented in the accompanying consolidated financial statements.

The consolidated financial statements of the Group have been prepared in accordance with Korean IFRS. These are the standards, subsequent amendments and related interpretations issued by the International Accounting Standards Board (IASB) that have been adopted by the Republic of Korea.

The preparation of financial statements requires the use of critical accounting estimates. Management also needs to exercise judgement in applying the Group's accounting policies. The areas involving a higher degree of judgment or complexity, or areas where assumptions and estimates are significant to the consolidated financial statements are disclosed in Note 3.

#### 2.1.1 Changes in Accounting Policies and Disclosures

##### *(a) New and amended standards adopted by the Group*

The Group has applied the following standards and amendments for the first time for their annual reporting period commencing January 1, 2017. The adoption of these amendments did not have any material impact on the financial statements.

# Daekyo Co., Ltd. and Subsidiaries

## Notes to the Consolidated Financial Statements

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#### - Amendments to Korean IFRS 1007 *Statement of Cash Flows*

Amendments to Korean IFRS 1007 *Statement of Cash flows* require to provide disclosures that enable users of financial statements to evaluate changes in liabilities arising from financing activities, including both changes arising from cash flows and non-cash flows.

#### - Amendments to Korean IFRS 1012 *Income Tax*

Amendments to Korean IFRS 1012 clarify how to account for deferred tax assets related to debt instruments measured at fair value. Korean IFRS 1012 provides requirements on the recognition and measurement of current or deferred tax liabilities or assets. The amendments issued clarify the requirements on recognition of deferred tax assets for unrealized losses, to address diversity in practice.

#### - Amendments to Korean IFRS 1112 *Disclosures of Interests in Other Entities*

Amendments to Korean IFRS 1112 clarify when an entity's interest in a subsidiary, a joint venture or an associate is classified as held for sales in accordance with Korean IFRS 1105, the entity is required to disclose other information except for summarized financial information in accordance with Korean IFRS 1112.

#### *(b) New standards and interpretations not yet adopted by the Group*

Certain new accounting standards and interpretations that have been published that are not mandatory for annual reporting period commencing January 1, 2017 and have not been early adopted by the Group are set out below.

#### - Amendments to Korean IFRS 1028 *Investments in Associates and Joint Ventures*

When an investment in an associate or a joint venture is held by, or it held indirectly through, an entity that is a venture capital organization, or a mutual fund, unit trust and similar entities including investment-linked insurance funds, the entity may elect to measure that investment at fair value through profit or loss in accordance with Korean IFRS 1109. The amendments clarify that an entity shall make this election separately for each associate or joint venture, at initial recognition of the associate or joint venture. The amendments will be effective for annual periods beginning on or after January 1, 2018, with early adoption permitted. The Group does not expect the amendments to have a significant impact on the financial statements because the Group is not a venture capital organization.

#### - Amendment to Korean IFRS 1040 *Transfers of Investment Property*

Paragraph 57 of Korean IFRS 1040 clarifies that a transfer to, or from, investment property, including property under construction, can only be made if there has been a change in use that is supported by evidence, and provides a list of circumstances as examples. The amendment will be effective for annual periods beginning on or after January 1, 2018, with early adoption permitted. The Group does not expect the amendment to have a significant impact on the financial

# Daekyo Co., Ltd. and Subsidiaries

## Notes to the Consolidated Financial Statements

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statements.

#### - Amendments to Korean IFRS 1102 *Share-based Payment*

Amendments to Korean IFRS 1102 clarify accounting for a modification to the terms and conditions of a share-based payment that changes the classification of the transaction from cash-settled to equity-settled. Amendments also clarify that the measurement approach should treat the terms and conditions of a cash-settled award in the same way as for an equity-settled award. The amendments will be effective for annual periods beginning on or after January 1, 2018, with early adoption permitted. The Group does not expect the amendments to have a significant impact on the financial statements.

#### - Enactment of Interpretation 2122 *Foreign Currency Transaction and Advance Consideration*

According to these enactments, the date of the transaction for the purpose of determining the exchange rate to use on initial recognition of the related asset, expense or income (or part of it) is the date on which an entity initially recognizes the non-monetary asset or non-monetary liability arising from the payment or receipt of advance consideration. If there are multiple payments or receipts in advance, the entity shall determine a date of the transaction for each payment or receipt of advance consideration. These enactments will be effective for annual periods beginning on or after January 1, 2018, with early adoption permitted. The Group does not expect the enactments to have a significant impact on the financial statements.

#### - Enactment of Korean IFRS 1116 *Leases*

Korean IFRS 1116 *Leases* issued on May 22, 2017 is effective for annual periods beginning on or after January 1, 2019, with early adoption permitted. This standard will replace Korean IFRS 1017 *Leases*, Interpretation 2104 *Determining whether an Arrangement contains a Lease*, Interpretation 2015 *Operating Leases-Incentives*, and Interpretation 2027 *Evaluating the Substance of Transactions Involving the Legal Form of a Lease*.

At inception of a contract, the Group shall assess whether the contract is, or contains, a lease. Also, at the date of initial application, the Group shall assess whether the contract is, or contains, a lease in accordance with the standard. However, the Group will not need to reassess all contracts with applying the practical expedient because the Group elected to apply the practical expedient only to contracts entered before the date of initial application.

For a contract that is, or contains, a lease, the Group shall account for each lease component within the contract as a lease separately from non-lease components of the contract. A lessee is required to recognize a right-of-use asset representing its right to use the underlying leased asset and a lease liability representing its obligation to make lease payments. The lessee may elect not to apply the requirements to short-term lease (a lease term of 12 months or less at the commencement date) and low value assets. In addition, as a practical expedient, the lessee may elect, by class of underlying asset, not to separate non-lease components from lease components, and instead account for each lease component and any associated non-lease components as a



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single lease component.

*a) Lessee accounting*

Method of applying Korean IFRS 1116 *Leases*

A lessee shall apply this standard to its leases either:

- retrospectively to each prior reporting period presented applying Korean IFRS 1008 *Accounting Policies, Changes in Accounting Estimates and Errors* (Full retrospective application); or
- retrospectively with the cumulative effect of initially applying the standard recognized at the date of initial application.

The Group has not yet elected the application method.

Financial effects of Korean IFRS 1116 *Leases*

The Group performed an impact assessment to identify potential financial effects of applying Korean IFRS 1116. The assessment was performed based on available information as at December 31, 2017 to identify effects on financial statements. The Group is analyzing the effects on the financial statements; however, it is difficult to provide reasonable estimates of financial effects until the analyses is complete.

*b) Lessor accounting*

Method of applying and financial effects of Korean IFRS 1116 *Leases*

The Group expects the effect on the financial statements applying the new standard will not be significant as accounting for the Group, as a lessor, will not significantly change.

- Enactment of Korean IFRS 1109 *Financial Instruments*

The new standard for financial instruments issued on September 25, 2015 is effective for annual periods beginning on or after January 1, 2018 with early application permitted. This standard will replace Korean IFRS 1039 *Financial Instruments: Recognition and Measurement*. The Group will apply the standards for annual periods beginning on or after January 1, 2018.

The standard requires retrospective application with some exceptions. For example, an entity is not required to restate prior period in relation to classification and measurement (including impairment) of financial instruments. The standard requires prospective application of its hedge accounting requirements for all hedging relationships except the accounting for time value of options and other exceptions.

Korean IFRS 1109 *Financial Instruments* requires three main areas including: (a) classification and measurement of financial assets on the basis of the entity's business model for managing

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financial assets and the contractual cash flow characteristics of the financial assets, (b) a new impairment model of financial instruments based on the expected credit losses, and (c) hedge accounting including expansion of the range of eligible hedging instruments and hedged items that qualify for hedge accounting or change of a method of hedge effectiveness assessment.

An effective implementation of Korean IFRS 1109 requires preparation processes including financial impact assessment, accounting policy establishment, accounting system development and the system stabilization. The impact on the Group's financial statements due to the application of the standard is dependent on judgements made in applying the standard, financial instruments held by the Group and macroeconomic variables.

The Group performed an impact assessment to identify potential financial effects of applying Korean IFRS 1109. The assessment was performed based on available information as at December 31, 2017, and the results of the assessment are explained as below. The Group plans to perform more detailed analyses on the financial effects based on additional information in the future; therefore, the results of the assessment may change due to additional information that the Group may obtain after the assessment.

*a) Classification and Measurement of Financial Assets*

When implementing Korean IFRS 1109, the classification of financial assets will be driven by the Group's business model for managing the financial assets and contractual terms of cash flow. The following table shows the classification of financial assets measured subsequently at amortized cost, at fair value through other comprehensive income and at fair value through profit or loss. If a hybrid contract contains a host that is a financial asset, the classification of the hybrid contract shall be determined for the entire contract without separating the embedded derivative.

| <b><i>Business model for the contractual cash flows characteristics</i></b>               | <b>Solely represent payments of principal and interest</b>               | <b>All other</b>   |
|---|--|--|
| <i>Hold the financial asset for the collection of the contractual cash flows</i>          | Measured at amortized cost <sup>1</sup>                                  |  |
| <i>Hold the financial asset for the collection of the contractual cash flows and sale</i> | Recognized at fair value through other comprehensive income <sup>1</sup> | Recognized at fair value through profit or loss <sup>2</sup> |
| <i>Hold for sale</i>  | Recognized at fair value through profit or loss                          |  |

<sup>1</sup> A designation at fair value through profit or loss is allowed only if such designation mitigates an accounting mismatch (irrevocable).

<sup>2</sup> Equity investments not held for trading can be recorded in other comprehensive income (irrevocable).

With the implementation of Korean IFRS 1109, the criteria to classify the financial assets at

# Daekyo Co., Ltd. and Subsidiaries

## Notes to the Consolidated Financial Statements

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amortized cost or at fair value through other comprehensive income are more strictly applied than the criteria applied with Korean IFRS 1039. Accordingly, the financial assets at fair value through profit or loss may increase by implementing Korean IFRS 1109 and may result an extended fluctuation in profit or loss.

As at December 31, 2017, the Group owns loans and receivables of ₩ 154,739 million, financial assets available-for-sales of ₩ 265,374 million and financial assets at fair value through profit or loss of ₩ 52,465 million. And, the Group does not hold financial assets held-to-maturity.

According to Korean IFRS 1109, a debt instrument is measured at amortized cost if: a) the objective of the business model is to hold the financial asset for the collection of the contractual cash flows, and b) the contractual cash flows under the instrument solely represent payments of principal and interest. As at December 31, 2017, the Group measured loans and receivables of ₩ 154,739 million at amortized costs. And, the Group does not hold financial assets held-to-maturity.

The application of the new standard as at December 31, 2017 does not have a material impact on the Group's financial statements. This is because the Group holds the majority of financial assets measured at amortized cost that meets the both criteria: a) the contractual terms of the financial assets that the Group holds give rise to cash flows that are solely payments of principal and interest on the principal amount outstanding on a specified date, and b) the Group holds the financial assets in order to collect contractual cash flow.

According to Korean IFRS 1109, a debt instrument is measured at fair value through other comprehensive income if the objective of the business model is achieved both by collecting contractual cash flows and selling financial assets; and the contractual cash flows represents solely payments of principal and interest on a specific date under contract terms. As at December 31, 2017, the Group holds debt instruments of ₩ 20,129 million classified as financial assets available-for-sale.

Based on results from the impact assessment of Korean IFRS 1109, if Korean IFRS 1109 is applied for the above debt instruments classified as financial assets available-for-sale, the Group expects the majority of the financial assets to be measured at fair value through other comprehensive income.

According to Korean IFRS 1109, equity instruments that are not held for trading, the Group can make an irrevocable election at initial recognition to classify the instruments as assets measured at fair value through other comprehensive income, which all subsequent changes in fair value being recognized in other comprehensive income and not recycled to profit or loss. As at December 31, 2017, the Group holds equity instruments of ₩ 245,245 million classified as financial assets available-for-sale and recycled unrealized gain or loss of ₩ 11,474 million arose from the equity instruments to profit or loss.

Based on results from the impact assessment of Korean IFRS 1109, the Group plans to designate equity instruments, which are classified in financial assets available-for-sale, as instruments

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measured at fair value through other comprehensive income for long-term investment purpose. Therefore, the Group is analyzing the effects on the financial statements.

According to Korean IFRS 1109, debt instruments whose contractual cash flows do not represent solely payments of principal and interest and held for trading, and equity instruments that are not designated as instruments measured at fair value through other comprehensive income are measured at fair value through profit or loss. As at December 2017, the Group holds equity instruments classified as financial assets at fair value through profit or loss that amount to ₩ 51,799 million.

Based on results from the impact assessment, if the Group applies Korean IFRS 1109 to the financial assets measured at fair value through profit or loss as at December 31, 2017, the application will not have a material impact on the financial statements because the majority of the financial assets will still be classified as at fair value through profit or loss.

#### *b) Classification and Measurement of Financial Liabilities*

Korean IFRS 1109 requires the amount of the change in the liability's fair value attributable to changes in the credit risk to be recognized in other comprehensive income, unless this treatment of the credit risk component creates or enlarges a measurement mismatch. Amounts presented in other comprehensive income are not subsequently transferred to profit or loss.

Under Korean IFRS 1039, all financial liabilities designated at fair value through profit or loss recognized their fair value movements in profit or loss. However, under Korean IFRS 1109, certain fair value movements will be recognized in other comprehensive income and as a result profit or loss from fair value movements may decrease.

As at December 31, 2017, the Group holds financial liabilities at fair value through profit or loss of ₩ 194 million. Based on results from the impact assessment, the financial liabilities in applying Korean IFRS 1109 may not be expected to have a material impact on the financial statements because the majority of financial liabilities designated as at fair value through profit or loss as at December 31, 2017 have short maturities and insignificant fluctuations in their credit risks.

#### *c) Impairment: Financial Assets and Contract Assets*

The new impairment model requires the recognition of impairment provisions based on expected credit losses (ECL) rather than only incurred credit losses as is the case under Korean IFRS 1039. It applies to financial assets classified at amortized cost, debt instruments measured at fair value through other comprehensive income, lease receivables, contract assets, loan commitments and certain financial guarantee contracts.

Under Korean IFRS 1109 'expected loss' model, a credit event (or impairment 'trigger') no longer has to occur before credit losses are recognized. The Group will always recognize (at a minimum) 12-month expected credit losses in profit or loss. Lifetime expected losses will be recognized on assets for which there is a significant increase in credit risk after initial recognition.

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| Stage <sup>1</sup> |   | Loss allowance   |
|--------------------|---|--|
| 1                  | No significant increase in credit risk after initial recognition <sup>2</sup> | 12-month expected credit losses (expected credit losses that result from those default events on the financial instrument that are possible within 12 months after the reporting date) |
| 2                  | Significant increase in credit risk after initial recognition                 | Lifetime expected credit losses (expected credit losses that result from all possible default events over the life of the financial instrument)  |
| 3                  | Credit-impaired   |  |

<sup>1</sup> A loss allowance for lifetime expected credit losses is required for a financial instrument if the credit risk on that financial instrument has increased significantly since initial recognition. It is also required for contract assets or trade receivables that are not, according to Korean IFRS 1115 *Revenue from Contracts with Customers*, considered to contain a significant financing component. Additionally, the Group can elect an accounting policy of recognizing lifetime expected credit losses for all contract assets and/or all trade receivables, including those that contain a significant financing component.

<sup>2</sup> If the financial instrument has low credit risk at the end of the reporting period, the Group may assume that the credit risk has not increased significantly since initial recognition.

Under Korean IFRS 1109, the asset that is credit-impaired at initial recognition would recognize all changes in lifetime expected credit losses since the initial recognition as a loss allowance with any changes recognized in profit or loss.

As at December 31, 2017, the Group owns loans and receivables carried at amortized cost of ₩ 167,105 million (before deducting allowance for doubtful accounts), the Group recognized loss allowance of ₩ 12,366 million for these assets.

*d) Hedge Accounting*

Hedge accounting mechanics (fair value hedges, cash flow hedges and hedge of net investments in a foreign operations) required by Korean IFRS 1039 remains unchanged in Korean IFRS 1109, however, the new hedge accounting rules will align the accounting for hedging instruments more closely with the Group's risk management practices. As a general rule, more hedge relationships might be eligible for hedge accounting, as the standard introduces a more principles-based approach. Korean IFRS 1109 allows more hedging instruments and hedged items to qualify for hedge accounting, and relaxes the hedge accounting requirement by removing two hedge effectiveness tests that are a prospective test to ensure that the hedging relationship is expected to be highly effective and a quantitative retrospective test (within range of 80-125%) to ensure that the hedging relationship has been highly effective throughout the reporting period.

With implementation of Korean IFRS 1109, volatility in profit or loss may be reduced as some items that were not eligible as hedged items or hedging instruments under Korean IFRS 1039 are now eligible under Korean IFRS 1109.

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Furthermore, when the Group first applies Korean IFRS 1109, it may choose as its accounting policy choice to continue to apply all of the hedge accounting requirements of Korean IFRS 1039 instead of the requirements of Korean IFRS 1109.

- Enactment of Korean IFRS 1115 *Revenue from Contracts with Customers*

Korean IFRS 1115 *Revenue from Contracts with Customers* issued on November 6, 2015 will be effective for annual reporting periods beginning on or after January 1, 2018 with early adoption permitted. This standard replaces Korean IFRS 1018 *Revenue*, Korean IFRS 1011 *Construction Contracts*, Interpretation 2031 *Revenue-Barter Transactions Involving Advertising Services*, Interpretation 2113 *Customer Loyalty Programs*, Interpretation 2115 *Agreements for the Construction of Real Estate* and Interpretation 2118 *Transfers of assets from customers*. The Group must apply Korean IFRS 1115 *Revenue from Contracts with Customers* within annual reporting periods beginning on or after January 1, 2018, and will elect the modified retrospective approach which will recognize the cumulative impact of initially applying the revenue standard as an adjustment to retained earnings as at January 1 2018, the period of initial application.

Korean IFRS 1018 and other current revenue standard identify revenue as income that arises in the course of ordinary activities of an entity and provides guidance on a variety of different types of revenue, such as, sale of goods, rendering of services, interest, dividends, royalties and construction contracts. However, the new standard is based on the principle that revenue is recognized when control of a good or service transfers to a customer so the notion of control replaces the existing notion of risks and rewards. A new five-step process must be applied before revenue from contract with customers can be recognized:

- Identify contracts with customers
- Identify the separate performance obligation
- Determine the transaction price of the contract
- Allocate the transaction price to each of the separate performance obligations, and
- Recognize the revenue as each performance obligation is satisfied.

As at December 31, 2017, for the preparation of implementing Korean IFRS 1115, the Group formed a task force team consist of members from accounting and IT departments, and also other practical departments if necessary.

The Group plans to perform detailed analysis on financial effects of applying the standard and disclose the result of the analysis in the notes on the financial statements as at March 31, 2018.

The Group performed an impact assessment to identify potential financial effects of applying Korean IFRS 1115. The assessment was performed based on available information as at December 31, 2017, and the results of the assessment are explained as below. The results of the assessment as at December 31, 2017 may change due to additional information that the Group

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may obtain after the assessment.

#### *a) Identify performance obligation*

With the implementation of Korean IFRS 1115, the Group identifies performance obligations from contract with a customer such as (a) sales of goods and (b) rendering of services. The timing of revenue recognition depends on a performance obligation is satisfied at a point in time or over time. The Group could not analyze the financial effects of separating performance obligations in detail.

#### *b) Variable consideration*

Variable consideration received from customer may fluctuate as the Group's publication business allows refunds at the contract that provides customer with the books. The Group could not analyze the financial effects of variable consideration policy in detail.

## **2.2 Consolidation**

The Group has prepared the consolidated financial statements in accordance with Korean IFRS 1110 '*Consolidated Financial Statements*'.

#### *(a) Subsidiaries*

Subsidiaries are all entities over which the Group has control. The Group controls an entity when the Group is exposed to, or has rights to, variable returns from its involvement with the entity and has the ability to affect those returns through its power to direct the activities of the entity. Subsidiaries are fully consolidated from the date on which control is transferred to the Group. They are deconsolidated from the date that control ceases.

The acquisition method of accounting is used to account for business combinations by the Group. The consideration transferred is measured at the fair values of the assets transferred, and identifiable assets acquired and liabilities and contingent liabilities assumed in a business combination are measured initially at their fair values at the acquisition date. The Group recognizes any non-controlling interest in the acquired entity on an acquisition-by-acquisition basis either at fair value or at the non-controlling interest's proportionate share of the acquired entity's net identifiable assets. All other non-controlling interests are measured at fair values, unless otherwise required by other standards. Acquisition-related costs are expensed as incurred.

The excess of consideration transferred, amount of any non-controlling interest in the acquired entity and acquisition-date fair value of any previous equity interest in the acquired entity over the fair value of the net identifiable assets acquired is recorded as goodwill. If those amounts are less than the fair value of the net identifiable assets of the business acquired, the difference is recognized directly in the profit or loss as a bargain purchase.

Intercompany transactions, balances and unrealized gains on transactions between group

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companies are eliminated. Accounting policies of subsidiaries have been changed where necessary to ensure consistency with the policies adopted by the Group.

#### *(b) Changes in ownership interests in subsidiaries without change of control*

The Group treats transactions with non-controlling interests that do not result in a loss of control as transactions with equity owners of the Group. A change in ownership interest results in an adjustment between the carrying amounts of the controlling and non-controlling interest to reflect their relative interest in the subsidiary. Any difference between the amount of the adjustment to non-controlling interest and any consideration paid or received is recognized in a separate reserve within equity attributable to owners of the Parent Company.

#### *(c) Disposal of subsidiaries*

When the Group ceases to consolidate for a subsidiary because of a loss of control, any retained interest in the subsidiary is remeasured to its fair value with the change in carrying amount recognized in profit or loss.

#### *(d) Associates*

Associates are entities over which the Group has significant influence but not control or joint control. Investments in associates are accounted for using the equity method of accounting, after initially being recognized at cost. Unrealized gains on transactions between the Group and its associates are eliminated to the extent of the Group's interest in the associates. If there is objective evidence of impairment for the investment in the associate, the Group recognizes the difference between the recoverable amount of the associate and its book amount as impairment loss.

## **2.3 Segment Reporting**

Group's operating segments are disclosed by entities reported to chief operating decision maker, the representative director, disclosures related to segment reporting are disclosed in 'Note 6' in accordance with Korean IFRS 1108, Segment reporting.

## **2.4 Foreign Currency Translation**

#### *(a) Functional and presentation currency*

Items included in the financial statements of each of the Group's entities are measured using the currency of the primary economic environment in which the each entity operates (the "functional currency"). The consolidated financial statements are presented in Korean won, which is the Controlling Company's functional and presentation currency.



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*(b) Transactions and balances*

Foreign currency transactions are translated into the functional currency using the exchange rates prevailing at the dates of the transactions or valuation where items are re-measured. Foreign exchange gains and losses resulting from the settlement of such transactions and from the translation at year-end exchange rates of monetary assets and liabilities denominated in foreign currencies are recognized in profit or loss, except when deferred in other comprehensive income as qualifying cash flow hedges.

Foreign exchange gains and losses that relate to borrowings and cash and cash equivalents are presented in 'finance income or costs' in the statement of profit or loss. All other foreign exchange gains and losses are presented in 'other income and expenses' in the statement of profit or loss.

Changes in the fair value of monetary securities denominated in foreign currency classified as available-for-sale are analyzed between translation differences resulting from changes in the amortized cost of the security and other changes in the carrying amount of the security. Translation differences related to changes in amortized cost are recognized in profit or loss, and other changes in carrying amount are recognized in other comprehensive income.

Exchange differences arising on non-monetary financial assets and liabilities such as equity instruments at fair value through profit or loss and available-for-sale equity instruments are recognized in profit or loss and included in other comprehensive income, respectively, as part of the fair value gain or loss.

## **2.5 Cash and Cash Equivalents**

Cash and cash equivalents include cash in hand, deposits held at call with banks, and other short-term highly liquid investments with original maturities of three months or less.

## **2.6 Financial Assets**

*(a) Classification and measurement*

The Group classifies its financial assets into the following categories: financial assets at fair value through profit or loss, available-for-sale financial assets, loans and receivables, and held-to-maturity financial assets. Regular way purchases and sales of financial assets are recognized on trade-date, the date on which the Group commits to purchase or sell the asset.

For hybrid (combined) instruments, the Group is unable to measure an embedded derivative separately from its host contract; therefore, the entire hybrid (combined) contract is classified as at fair value through profit or loss. The Group designated financial assets, equity-linked securities, as at fair value through profit or loss.

At initial recognition, the Group measures a financial asset at its fair value plus, in the case of a financial asset not at fair value through profit or loss, transaction costs that are directly attributable

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to the acquisition of the financial asset. Transaction costs of financial assets carried at fair value through profit or loss are expensed in profit or loss. Available-for-sale financial assets and financial assets at fair value through profit or loss are subsequently carried at fair value. And, loans and receivables and held-to-maturity investments are subsequently carried at amortized cost using the effective interest method.

Gains or losses arising from changes in the fair value of financial assets at fair value through profit or loss are recognized in profit or loss. Gains or losses arising from changes in the available-for-sale financial assets are recognized in other comprehensive income, and amounts are reclassified to profit or loss when the associated assets are sold or impaired.

*(b) Impairment*

The Group assesses at the end of each reporting period whether there is objective evidence that a financial asset or a group of financial assets is impaired. A financial asset or a group of financial assets is impaired and impairment losses are incurred only if there is objective evidence of impairment as a result of one or more events that occurred after the initial recognition of the asset (a 'loss event') and that loss event (or events) has an impact on the estimated future cash flows of the financial asset or a group of financial assets that can be reliably estimated.

Impairment of loans and receivables is presented as a deduction in an allowance account, and that of other financial assets is directly deducted from their carrying amount. The Group writes off financial assets when the assets are determined to be no longer recoverable.

The objective evidence that a financial asset is impaired includes significant financial difficulty of the issuer or obligor; a delinquency in interest or principal payments; or the disappearance of an active market for that financial asset because of financial difficulties. Moreover, in the case of equity investments classified as available-for-sale, a significant decline in the fair value of the security below its cost, or prolonged decline is considered an objective evidence of impairment.

*(c) Derecognition*

If a transfer does not result in derecognition because the Group has retained substantially all the risks and rewards of ownership of the transferred asset, the Group continues to recognize the transferred asset in its entirety and recognizes a financial liability for the consideration received. The Group classified the financial liability as "borrowings" in the statement of financial position.

*(d) Offsetting of financial instruments*

Financial assets and liabilities are offset and the net amount reported in the consolidated statements of financial position where there is a legally enforceable right to offset the recognized amounts and there is an intention to settle on a net basis or realize the assets and settle the liability simultaneously. The legally enforceable right must not be contingent on future events and must be enforceable in the normal course of business and in the event of default, insolvency or

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bankruptcy of the Group or the counterparty.

#### **2.7 Derivative Instruments**

Derivatives are initially recognized at fair value on the date when a derivative contract is entered into and are subsequently remeasured at their fair value at the end of each reporting period. Changes in the fair value of any derivative instrument that are not qualified for hedge accounting are recognized in profit or loss within 'other income (expenses)' or 'finance income (costs)' based on the nature of transactions.

#### **2.8 Trade Receivables**

Trade receivables are amounts due from customers for merchandise sold or services performed in the ordinary course of business. If collection is expected in one year or less, they are classified as current assets. If not, they are presented as non-current assets. Trade receivables are recognized initially at fair value, less allowance for doubtful accounts.

#### **2.9 Inventories**

Inventories are stated at the lower of cost and net realizable value. Cost is determined using the moving average method and FIFO method.

#### **2.10 Non-current Assets (or disposal group) Held for Sale**

Non-current assets (or disposal group) are classified as 'non-current assets held-for-sale' (or assets of disposal group classified as held for sale) when their carrying amount is to be recovered principally through a sale transaction and a sale is considered highly probable. They are stated at the lower of carrying amount and fair value less costs to sell.

#### **2.11 Property, Plant and Equipment**

Property, plant and equipment are stated at historical cost less accumulated depreciation and accumulated impairment losses. Historical cost includes expenditure that is directly attributable to the acquisition of the items.

Subsequent costs are included in the asset's carrying amount or recognized as a separate asset, as appropriate, only when it is probable that future economic benefits associated with the item will flow to the Group and the cost of the item can be measured reliably. The carrying amount of the replaced part is derecognized. All other repairs and maintenance are charged to the statement of income during the financial period in which they are incurred.

Land, standing timber and construction-in-progress are not depreciated. Depreciation on other assets is calculated using the straight-line method to allocate the difference between their cost and their residual values over their estimated useful lives, as follows:

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|            | <b>Estimated Useful lives</b> |
|------------|-------------------------------|
| Buildings  | 40 - 60 years                 |
| Structures | 3 - 40 years                  |
| Machinery  | 4 - 5 years                   |
| Vehicles   | 4 - 10 years                  |
| Tools      | 4 - 6 years                   |
| Supplies   | 3 - 17 years                  |
| Equipment  | 5 years                       |

The assets' depreciation method, residual values and useful lives are reviewed, and adjusted if appropriate, at the end of each reporting period. An asset's carrying amount is written down immediately to its recoverable amount if the asset's carrying amount is greater than its estimated recoverable amount. Gains and losses on disposals are determined by comparing the proceeds with the carrying amount and are recognized within 'other income (expenses)' in the statement of profit or loss.

#### **2.12 Borrowing Costs**

General and specific borrowing costs that are directly attributable to the acquisition, construction or production of a qualifying asset are capitalized during the period of time that is required to complete and prepare the asset for its intended use or sale. Investment income earned on the temporary investment of specific borrowings pending their expenditure on qualifying assets is deducted from the borrowing costs eligible for capitalization. Other borrowing costs are expensed in the period in which they are incurred.

#### **2.13 Investment Property**

Investment properties is property held to earn rentals or for capital appreciation or both. An investment properties is measured initially at its cost. An investment properties is measured after initial measurement at depreciated cost (less any accumulated impairment losses). After recognition as an asset, investment properties is carried at cost less accumulated depreciation and impairment losses. The Group depreciates investment properties, except for land, using the straight-line method over their useful lives of 40 to 60 years.

#### **2.14 Intangible Assets**

##### *(a) Goodwill*

Goodwill is measured as explained in Note 2.2 and goodwill arising on the acquisition of subsidiaries and business is included in intangible assets. Goodwill is tested annually for impairment and carried at cost less accumulated impairment losses. Impairment losses on goodwill are not reversed. Gains and losses on the disposal of an entity include the carrying amount of goodwill relating to the entity sold.

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For the purpose of impairment testing, goodwill acquired in a business combination is allocated to each of the CGUs, or group of CGUs, that is expected to benefit from the synergies of the combination.

Goodwill impairment reviews are undertaken annually or more frequently if events or changes in circumstances indicate a potential impairment. The carrying amount of goodwill is compared to the recoverable amount, which is the higher of value in use and the fair value less costs to sell. Any impairment is recognized immediately as an expense and is not subsequently reversed.

*(b) Membership rights*

Membership rights are regarded as intangible assets with indefinite useful life and not amortized because there is no foreseeable limit to the period over which the asset is expected to be utilized.

*(c) Development Costs*

Expenditure on research is recognized as an expense as incurred. Development costs which are individually identifiable and directly related to a new technology or to new products which carry probable future economic benefits are recognized as intangible assets when all the following criteria are met:

- It is technically feasible to complete the intangible asset so that it will be available for use or sale;
- Management intends to complete the intangible asset and use or sell it;
- There is the ability to use or sell the intangible asset;
- It can be demonstrated how the intangible asset will generate probable future economic benefits;
- Adequate technical, financial and other resources to complete the development and to use or sell the intangible asset are available; and
- The expenditure attributable to the intangible asset during its development can be reliably measured.

Other development expenditures that do not meet these criteria are recognized as an expense as incurred. Development costs previously recognized as an expense are not recognized as an asset in a subsequent period. Capitalized development costs stated as intangible assets are amortized using the straight-line method or declining-balance method over their estimated useful lives when the assets are available for using or selling and are tested for impairment.

*Internally Generated Development Cost*

The Group generally recognizes expenditures incurred after the capitalization assessment phase as intangible assets, and expenditures incurred before the phase are recognized as expenses within research and development expenses.

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*(d) Other intangible assets*

Other intangible assets such as industrial property rights and software which meet the definition of an intangible asset are amortized using the following depreciation method and estimated useful lives when the asset is available for use.

|                             | <u>Estimated Useful Lives</u> | <u>Depreciation Method</u> |
|-----------------------------|-------------------------------|----------------------------|
| Industrial property rights  | 5 - 10 years                  | Straight-line method       |
| Software                    | 4 years                       | Straight-line method       |
| Other intangible assets     | 1 - 15 years                  | Straight-line method       |
| Right to use donated assets | 1 - 4 years                   | Straight-line method       |

**2.15 Government Grants**

Government grants are recognized at their fair value where there is a reasonable assurance that the grant will be received and the Group will comply with all attached conditions.

Government grants related to income are deferred and recognized in the statement of comprehensive income over the period necessary to match them with the costs that they are intended to compensate.

Government grants related to property, plant and equipment are presented by deducting the grants in arriving at carrying amount of the assets and are credited to depreciation over the expected lives of the related assets.

**2.16 Impairment of Non-financial Assets**

Goodwill and intangible assets that have an indefinite useful life are not subject to amortization and are tested annually for impairment, or more frequently if events or changes in circumstances indicate that they might be impaired. Other assets are tested for impairment whenever events or changes in circumstances indicate that the carrying amount may not be recoverable. An impairment loss is recognized for the amount by which the asset's carrying amount exceeds its recoverable amount. The recoverable amount is the higher of an asset's fair value less costs of disposal and value in use. Non-financial assets other than goodwill that suffered an impairment are reviewed for possible reversal of the impairment at the end of each reporting period.

**2.17 Financial Liabilities**

*(a) Classification and measurement*

The Group's financial liabilities at fair value through profit or loss are financial instruments held for trading. A financial liability is held for trading if it is incurred principally for the purpose of repurchasing in the near term. A derivative that is not a designated as hedging instruments and an embedded derivative that is separated are also classified as held for trading.

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The Group classifies non-derivative financial liabilities, except for financial liabilities at fair value through profit or loss, financial guarantee contracts and financial liabilities that arise when a transfer of financial assets does not qualify for derecognition, as financial liabilities carried at amortized cost and present as 'trade payables', 'other payables', 'borrowings', and 'other financial liabilities' in the statement of financial position.

#### *(b) Derecognition*

Financial liabilities are removed from the statement of financial position when it is extinguished; for example, when the obligation specified in the contract is discharged or cancelled or expired or when the terms of an existing financial liability are substantially modified.

#### **2.18 Trade Payables**

Trade payables are obligations to pay for goods or services that have been acquired in the ordinary course of business from suppliers. Trade payables are classified as current liabilities if payment is due within one year or less. If not, they are presented as non-current liabilities. Trade payables are recognized initially at fair value and subsequently measured at amortized cost using the effective interest method.

#### **2.19 Borrowings**

Borrowings are recognized initially at fair value, net of transaction costs incurred. Borrowings are subsequently carried at amortized cost; any difference between the proceeds (net of transaction costs) and the redemption value is recognized in the statement of income over the period of the borrowings using the effective interest method. The Group classifies the liability as current as long as it does not have an unconditional right to defer its settlement for at least 12 months after the reporting date.

#### **2.20 Provisions**

Provisions are recognized when the Group has a present legal or constructive obligation as a result of past events and an outflow of resources required to settle the obligation is probable and can be reliably estimated. Provisions are not recognized for future operating losses. The Group recognises the sales return provision for the estimated sales return based on historical results.

#### **2.21 Current and Deferred Tax**

The tax expense for the period consists of current and deferred tax. Current and deferred tax is recognized in profit or loss, except to the extent that it relates to items recognized in other comprehensive income or directly in equity. In this case, the tax is also recognized in other comprehensive income or directly in equity, respectively.

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The tax expense is measured at the amount expected to be paid to the taxation authorities, using the tax rates (and tax laws) that have been enacted or substantively enacted by the end of the reporting period.

Management periodically evaluates positions taken in tax returns with respect to situations in which applicable tax regulation is subject to interpretation. The Group recognizes current income tax on the basis of amounts expected to be paid to the tax authorities.

Deferred income tax is provided in full, using the liability method, on temporary differences arising between the tax bases of assets and liabilities and their carrying amounts in the consolidated financial statements. However, deferred income tax is not accounted for if it arises from initial recognition of an asset or liability in a transaction other than a business combination that at the time of the transaction affects neither accounting nor taxable profit or loss.

Deferred tax assets are recognized only if it is probable that future taxable amounts will be available to utilize those temporary differences and losses.

The Group recognizes a deferred tax liability all taxable temporary differences associated with investments in subsidiaries, associates, and interests in joint arrangements, except to the extent that the Group is able to control the timing of the reversal of the temporary difference and it is probable that the temporary difference will not reverse in the foreseeable future. In addition, The Group recognizes a deferred tax asset for all deductible temporary differences arising from such investments to the extent that it is probable the temporary difference will reverse in the foreseeable future and taxable profit will be available against which the temporary difference can be utilized.

Deferred tax assets and liabilities are offset when there is a legally enforceable right to offset current tax assets and liabilities and when the deferred tax balances relate to the same taxation authority. Current tax assets and tax liabilities are offset where the entity has a legally enforceable right to offset and intends either to settle on a net basis.

#### **2.22 Employee Benefits**

##### *(a) Post-employment benefits*

The Group companies operate various pension schemes. The schemes are generally funded through payments to insurance companies or trustee-administered funds, determined by periodic actuarial calculations. The Group has both defined benefit and defined contribution plans.

A defined contribution plan is a pension plan under which the Group pays fixed contributions into a separate entity. The Group has no legal or constructive obligations to pay further contributions if the fund does not hold sufficient assets to pay all employees the benefits relating to employee service in the current and prior periods. For defined contribution plans, the Group pays contributions to publicly or privately administered pension insurance plans on a mandatory,



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contractual or voluntary basis. The Group has no further payment obligations once the contributions have been paid. The contributions are recognized as employee benefit expense when employees render services. Prepaid contributions are recognized as an asset to the extent that a cash refund or a reduction in the future payments is available.

A defined benefit plan is a pension plan that is not a defined contribution plan. Typically defined benefit plans define an amount of pension benefit that an employee will receive on retirement, usually dependent on one or more factors such as age, years of service and compensation. The liability(asset) recognized in the statement of financial position in respect of defined benefit pension plans is the present value of the defined benefit obligation at the end of the reporting period less the fair value of plan assets. The defined benefit obligation is calculated annually by independent actuaries using the projected unit credit method. The present value of the defined benefit obligation is determined by discounting the estimated future cash outflows using interest rates of high-quality corporate bonds that are denominated in the currency in which the benefits will be paid, and that have terms to maturity approximating to the terms of the related pension liability. The remeasurements of the net defined benefit liability are recognized in other comprehensive income.

If any plan amendments, curtailments, or settlements occur, past service costs or any gains or losses on settlement are recognized as profit or loss for the year.

#### *(b) Share-based payments*

The Group operates equity-settled, share-based compensation plans, under which the Group receives services from employees as consideration for equity instruments (options) of the Group. The fair value of the employee services received in exchange for the grant of the options is recognized as an expense. The total amount to be expensed is determined by reference to the fair value of the options granted. The Group makes payments with its treasury shares when the options are exercised.

#### **2.23 Share Capital**

Ordinary shares and preferred shares that are not mandatorily redeemable are classified as equity.

Where the Group purchases its own equity share capital (treasury shares), the consideration paid, including any directly attributable incremental costs is deducted from equity attributable to the Company's equity holders until the shares are cancelled or reissued. Where such ordinary shares are subsequently reissued, any consideration received is included in equity attributable to the Company's equity holders.

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**2.24 Revenue Recognition**

Revenue is measured at the fair value of the consideration received or receivable for the sales of goods or rendering of services arising from the normal course of the business. Amounts disclosed as revenue are net of value added taxes, returns, rebates and discounts and after elimination of inter-company transactions.

The Group recognizes revenue when i) the amount of revenue can be reliably measured, ii) it is probable that future economic benefits will flow to the Group and iii) specific criteria have been met for each of the Group's activities as described below. The Group bases its estimate on historical results, taking into consideration the type of customer, the type of transaction and the specifics of each arrangement.

*(a) Sales of goods*

The Group sells weekly home-school materials, reference books, collections, publications and others. Sales of goods are recognized when products are delivered to the purchaser. Delivery does not occur until the products have been shipped to the specified location, the risks of obsolescence and loss have been transferred to the wholesaler, and either the purchaser has accepted the products in accordance with the sales contract, the acceptance provisions have lapsed or the Group has objective evidence that all criteria for acceptance have been satisfied.

*(b) Rendering of services*

The Group generally recognizes revenue by reference to contract conditions in accordance with the substance of the relevant agreements.

*(c) Interest income*

Interest income is recognized using the effective interest method according to the time passed. When a loan and receivable is impaired, the Group recognizes the difference between the carrying amount and its recoverable amount as impairment loss and continues unwinding the discount as interest income. Interest income on impaired loans and receivables is recognized using the original effective interest rate.

*(d) Dividend income*

Dividend income is recognized when the right to receive payment is established.

*(e) Royalty income*

Royalty income is recognized on an accrual basis in accordance with the substance of the relevant agreements.

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**2.25 Lease**

Leases in which a substantial portion of the risks and rewards of ownership are not transferred to the Group are classified as operating leases. Payments made under operating leases are charged to the statement of profit or loss on a straight-line basis over the period of the lease.

**2.26 Dividend Distribution**

Dividend distribution to the Company's shareholders is recognized as a liability in the financial statements in the period in which the dividends are approved by the Company's shareholders.

**2.27 Business Combinations**

The acquisition method of accounting is used to account for business combinations by the Group. The consideration transferred is measured at the fair values of the assets transferred, and identifiable assets acquired and liabilities and contingent liabilities assumed in a business combination are measured initially at their fair values at the acquisition date. The Group recognizes any non-controlling interest in the acquired entity on an acquisition-by-acquisition basis either at fair value or at the non-controlling interest's proportionate share of the acquired entity's net identifiable assets. All other non-controlling interests are measured at fair values, unless otherwise required by other standards. Acquisition-related costs are expensed as incurred.

The excess of consideration transferred, amount of any non-controlling interest in the acquired entity and acquisition-date fair value of any previous equity interest in the acquired entity over the fair value of the net identifiable assets acquired is recoded as goodwill. If those amounts are less than the fair value of the net identifiable assets of the business acquired, the difference is recognized directly in the profit or loss as a bargain purchase.

**3. Critical Accounting Estimates and Assumptions**

The preparation of financial statements requires the Group to make estimates and assumptions concerning the future. Estimates and judgments are continually evaluated and are based on historical experience and other factors, including expectations of future events that are believed to be reasonable under the circumstances. The resulting accounting estimates will, by definition, seldom equal the related actual results. The estimates and assumptions that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year are discussed below.

*(a) Estimated impairment of goodwill*

The Group tests annually whether goodwill has suffered any impairment in accordance with the accounting policy stated in Note 2.16. The recoverable amounts of cash-generating units have been determined based on value-in-use calculations. These calculations require the use of estimates.

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*(b) Income taxes*

The Group is operating in numerous countries and the income generated from these operations is subject to income taxes based on tax laws and interpretations of tax authorities in numerous jurisdictions. There are many transactions and calculations for which the ultimate tax determination is uncertain.

If certain portion of the taxable income is not used for investments or increase in wages or dividends in accordance with the *Tax System For Recirculation of Corporate Income*, the Group is liable to pay additional income tax calculated based on the tax laws. The new tax system is effective for three years from 2015. Accordingly, the measurement of current and deferred income tax is affected by the tax effects from the new tax system. As the Group's income tax is dependent on the investments, increase in wages and dividends, there is an uncertainty measuring the final tax effects.

*(c) Fair value of financial instruments*

The fair value of financial instruments that are not traded in an active market is determined by using valuation techniques. The Group uses its judgment to select a variety of methods and make assumptions that are mainly based on market conditions existing at the end of each reporting period.

*(d) Provisions*

As described in Note 22, the Group recognizes provisions for estimated returns as at the reporting date. The amounts are estimated based on historical data.

*(e) Net defined benefit liability*

The present value of the defined benefit liability depends on a number of factors that are determined on an actuarial basis using a number of assumptions. The assumptions used in determining the net cost (income) for pensions include the discount rate. Any changes in these assumptions will impact the carrying amount of the defined benefit liability. The Group determines the appropriate discount rate at the end of each year. This is the interest rate that is used to determine the present value of estimated future cash outflows expected to be required to settle the defined benefit liability. In determining the appropriate discount rate, the Group considers the interest rates of high-quality corporate bonds that are denominated in the currency in which the pension benefits will be paid, and that have terms to maturity approximating to the terms of the related pension liability. Other key assumptions for defined benefit liability are based in part on current market conditions. Additional information is disclosed in Note 24.

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**4. Financial Risk Management**

**4.1 Financial Risk Factors**

The Group's activities expose it to a variety of financial risks: market risk (including foreign exchange risk, interest rate risk and price risk), credit risk and liquidity risk. The Group's overall risk management program focuses on the unpredictability of financial markets and seeks to minimize potential adverse effects on the Group's financial performance.

Risk management is carried out under policies approved by the board of directors. The board reviews and approves written principles for overall risk management, as well as written policies covering specific areas, such as foreign exchange risk, interest rate risk, credit risk, use of derivative financial instruments and non-derivative financial instruments, and investment of excess liquidity.

*(a) Market risk*

i) Foreign exchange risk

The Group operates internationally and is exposed to foreign exchange risk arising from foreign currency transactions, primarily with respect to the US dollar and the Chinese yuan. Foreign exchange risk arises from future commercial transactions, recognized assets and liabilities and net investments in foreign entities.

Management has set up a policy to require group companies to manage their foreign exchange risk against their functional currencies.

The Group has certain investments in foreign entities, whose net assets are exposed to foreign currency translation risk. Currency exposure arising from the net assets of the Group's foreign entities is managed primarily through trade receivables denominated in the relevant foreign currencies.

The Group's financial assets exposed to foreign currency risk as at December 31, 2017 and 2016, are as follows:

| <i>(in USD, CNY<br/>and millions of Korean won)</i> |     | <b>December 31, 2017</b>    |                       | <b>December 31, 2016</b>    |                       |
|---|-----|-----------------------------|-----------------------|-----------------------------|-----------------------|
|   |     | <b>Foreign<br/>currency</b> | <b>Korean<br/>won</b> | <b>Foreign<br/>currency</b> | <b>Korean<br/>won</b> |
| Cash and cash<br>equivalents                        | USD | 7,133,843                   | 7,643                 | 2,344,664                   | 2,834                 |
|   | CNY | 149,823                     | 25                    | -                           | -                     |
| Trade receivables                                   | USD | 32,803                      | 35                    | 121,535                     | 147                   |
|   | JPY | 369,133                     | 60                    | 371,236                     | 64                    |

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The table below summarizes the impact of weakened/strengthened Korean won on the Group's equity and post-tax profit for the year. The analysis is based on the assumption that Korean won has weakened/strengthened by 1% with all other variables held constant.

| <i>(in millions of Korean won)</i> | 2017        |             | 2016        |             |
|------------------------------------|-------------|-------------|-------------|-------------|
|                                    | 1% increase | 1% decrease | 1% increase | 1% decrease |
| USD                                | 58          | (58)        | 23          | (23)        |
| CNY                                | 1           | (1)         | 1           | (1)         |

ii) Interest rate risk

Interest rate risk is defined as the risk that the interest income or expenses arising from deposits and borrowings will fluctuate because of changes in future market interest rate. The interest rate risk mainly arises through floating rate deposits and borrowings.

As at December 31, 2017 and 2016, if interest rates had changed by 100bp with all other variables held constant, the effects on interest expense and interest income from floating rate deposits and borrowings are as follows:

| <i>(in millions of Korean won)</i> | 2017           |                | 2016           |                |
|------------------------------------|----------------|----------------|----------------|----------------|
|                                    | 100bp increase | 100bp decrease | 100bp increase | 100bp decrease |
| Interest income                    | 121            | (121)          | 214            | (214)          |
| Interest expense                   | 197            | (197)          | 130            | (130)          |

iii) Price risk

The Group is exposed to equity securities price risk because of investments held by the Group and classified on the consolidated statement of financial position as available-for-sale financial assets or financial assets at fair value through profit or loss. To manage its price risk arising from investments in equity securities, the Group diversifies its portfolio. Diversification of the portfolio is done in accordance with the limits set by the group.

If the prices of equity instruments had changed by 5% with all other variables held constant, the effects on profit (loss) for the year and total comprehensive income (loss) would be as follows:

| <i>(in millions of Korean won)</i> | 2017        |             | 2016        |             |
|------------------------------------|-------------|-------------|-------------|-------------|
|                                    | 5% increase | 5% decrease | 5% increase | 5% decrease |
| Profit (loss) for the year         | 1,963       | (1,963)     | 2,817       | (2,817)     |
| Comprehensive income (loss)        | 10,040      | (10,040)    | 9,750       | (9,750)     |

(b) Credit Risk

Credit risk is managed on a group basis. Credit risk arises from cash and cash equivalents and

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deposits with banks and financial institutions, as well as credit exposures to customers, including outstanding receivables and committed transactions. For banks and financial institutions, only independently rated parties with a minimum rating of 'A' are accepted. Corporate customers are evaluated taking into account its financial position, past experience and other factors and sales to individual customers are settled in cash or using major credit cards.

*(c) Liquidity Risk*

The Group forecasts its cash flow and liquidity status and sets action plans on a regular basis to manage liquidity risk proactively.

In addition, the Group copes with potential financial distress by maintaining adequate amount of cash and financial deposits. The balances of cash and cash equivalents, and current-financial deposits as at December 31, 2017, is ₩80,940 million (2016: ₩108,968 million).

The analysis of the Group's financial liabilities into relevant maturities based on the remaining period at the end of the reporting period to the contractual maturity date as at December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i> | <b>December 31, 2017</b> |                              |                         |                              |                              |
|------------------------------------|--------------------------|------------------------------|-------------------------|------------------------------|------------------------------|
|                                    | <b>Book amount</b>       | <b>Cash flow on contract</b> | <b>Less than 1 year</b> | <b>Between 1 and 2 years</b> | <b>Between 2 and 5 years</b> |
| Trade payables                     | 8,894                    | 8,894                        | 8,894                   | -                            | -                            |
| Derivative financial liabilities   | 194                      | 194                          | 194                     | -                            | -                            |
| Other payables (current)           | 69,781                   | 69,781                       | 69,781                  | -                            | -                            |
| Borrowings (current)               | 19,930                   | 20,595                       | 20,595                  | -                            | -                            |
| Other payables (non-current)       | 10,952                   | 10,952                       | -                       | 10,952                       | -                            |
| Borrowings (non-current)           | 8,201                    | 9,160                        | 264                     | 914                          | 7,982                        |

  

| <i>(in millions of Korean won)</i> | <b>December 31, 2016</b> |                              |                         |                              |                              |
|------------------------------------|--------------------------|------------------------------|-------------------------|------------------------------|------------------------------|
|                                    | <b>Book amount</b>       | <b>Cash flow on contract</b> | <b>Less than 1 year</b> | <b>Between 1 and 2 years</b> | <b>Between 2 and 5 years</b> |
| Trade payables                     | 9,970                    | 9,970                        | 9,970                   | -                            | -                            |
| Derivative financial liabilities   | 1,065                    | 1,065                        | 1,065                   | -                            | -                            |
| Other payables (current)           | 77,030                   | 77,030                       | 77,030                  | -                            | -                            |
| Borrowings (current)               | 18,774                   | 19,005                       | 19,005                  | -                            | -                            |
| Other payables (non-current)       | 9,586                    | 9,586                        | -                       | 9,586                        | -                            |
| Borrowings (non-current)           | 9,460                    | 10,866                       | 309                     | 519                          | 10,038                       |

The amounts disclosed in the table are the contractual undiscounted cash flows, prepared based on the earliest date of the payments that can be requested and the cash flow of interest is included.

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**4.2 Capital Management**

The Group's objectives when managing capital are to maintain a sound capital structure. The Group monitors capital on the basis of the liabilities/equity ratio which is calculated as total liabilities divided by total equity on consolidated statements of financial position.

Debt-to-equity ratios as at December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i> | <u>December 31, 2017</u> | <u>December 31, 2016</u> |
|------------------------------------|--------------------------|--------------------------|
| Total liabilities (A)              | 180,165                  | 185,342                  |
| Total equity (B)                   | 676,932                  | 662,797                  |
| Debt-to-equity ratio (A/B)         | 27%                      | 28%                      |

**5. Fair Value**

**5.1 Fair Value of Financial Instruments by Category**

Carrying amount and fair value of financial instruments by category as at December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i>                    | <u>December 31, 2017</u> |                   | <u>December 31, 2016</u> |                   |
|---|--------------------------|-------------------|--------------------------|-------------------|
|   | <u>Carrying amount</u>   | <u>Fair value</u> | <u>Carrying amount</u>   | <u>Fair value</u> |
| <b>Financial assets</b>                               |                          |                   |                          |                   |
| Current:  |                          |                   |                          |                   |
| Cash and cash equivalents                             | 60,252                   | 60,252            | 96,847                   | 96,847            |
| Financial deposits                                    | 20,688                   | 20,688            | 12,121                   | 12,121            |
| Trade receivables                                     | 21,355                   | 21,355            | 22,111                   | 22,111            |
| Other receivables                                     | 43,396                   | 43,396            | 41,088                   | 41,088            |
| Financial assets at fair value through profit or loss | 51,799                   | 51,799            | 74,272                   | 74,272            |
| Derivative financial assets                           | 666                      | 666               | 45                       | 45                |
| Available-for-sale financial assets                   | <u>103,810</u>           | <u>103,810</u>    | <u>72,906</u>            | <u>72,906</u>     |
|   | <u>301,966</u>           | <u>301,966</u>    | <u>319,390</u>           | <u>319,390</u>    |
| Non-current:  |                          |                   |                          |                   |
| Financial deposits                                    | -                        | -                 | 300                      | 300               |
| Other receivables                                     | 9,048                    | 9,083             | 11,080                   | 11,287            |
| Available-for-sale financial assets                   | <u>135,219</u>           | <u>135,219</u>    | <u>121,161</u>           | <u>121,161</u>    |
|   | <u>144,267</u>           | <u>144,302</u>    | <u>132,541</u>           | <u>132,748</u>    |
|   | <u>446,233</u>           | <u>446,268</u>    | <u>451,931</u>           | <u>452,138</u>    |



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|                                  | December 31, 2017 |                | December 31, 2016 |                |
|----------------------------------|-------------------|----------------|-------------------|----------------|
|                                  | Carrying amount   | Fair value     | Carrying amount   | Fair value     |
| <b>Financial liabilities</b>     |                   |                |                   |                |
| Current:                         |                   |                |                   |                |
| Trade payables                   | 8,894             | 8,894          | 9,970             | 9,970          |
| Derivative financial liabilities | 194               | 194            | 1,065             | 1,065          |
| Other payables                   | 69,781            | 69,781         | 77,030            | 77,030         |
| Borrowings                       | 19,930            | 19,930         | 18,774            | 18,774         |
|                                  | <u>98,799</u>     | <u>98,799</u>  | <u>106,839</u>    | <u>106,839</u> |
| Non-current:                     |                   |                |                   |                |
| Other payables                   | 10,952            | 10,840         | 9,586             | 10,094         |
| Borrowings                       | 8,201             | 8,201          | 9,460             | 9,460          |
|                                  | <u>19,153</u>     | <u>19,041</u>  | <u>19,046</u>     | <u>19,554</u>  |
|                                  | <u>117,952</u>    | <u>117,840</u> | <u>125,885</u>    | <u>126,393</u> |

Carrying amount of financial assets and financial liabilities classified as current portion is measured at a reasonable approximation of fair value. Equity instruments that do not have a quoted price in an active market are measured at cost because their fair value cannot be measured reliably and excluded from the fair value disclosures. Equity securities measured at cost amount to ₩ 26,345 million (2016: ₩ 28,242 million) as at December 31, 2017.

**5.2 Fair Value Measurement Method**

Fair value with the purpose of measurement and disclosure is determined by the below methods.

(a) *Available-for-sale financial assets*

The fair value of financial instruments traded in active markets is based on quoted market prices at the end of the reporting period. A market is regarded as active if quoted prices are readily and regularly available from an exchange, dealer, broker, an entity within the same industry, pricing service, or regulatory agency, and those prices represent actual and regularly occurring market transactions on an arm's length basis. The quoted market price used for financial assets held by the Group is the current bid price.

(b) *Non-current other receivables*

Carrying amount and fair value of non-current other receivables as at December 31, 2017 and 2016, are as follows:

(in millions of Korean won)

|                 | December 31, 2017 |              | December 31, 2016 |               |
|-----------------|-------------------|--------------|-------------------|---------------|
|                 | Carrying amount   | Fair value   | Carrying amount   | Fair value    |
| Long-term loans | 9                 | 9            | -                 | -             |
| Deposits        | 9,039             | 9,074        | 11,080            | 11,287        |
|                 | <u>9,048</u>      | <u>9,083</u> | <u>11,080</u>     | <u>11,287</u> |

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Fair value of non-current other receivables is calculated based on a nominal value of expected future cash inflows discounted using a discount rate reflecting credit risk.

|               |                          |                          |
|---------------|--------------------------|--------------------------|
|               | <u>December 31, 2017</u> | <u>December 31, 2016</u> |
| Discount rate | 3.64%                    | 3.58%                    |

*(c) Non-current other payables*

Carrying amount and fair value of non-current other payables as at December 31, 2017 and 2016, are as follows:

|                                    |                          |                   |                          |                   |
|------------------------------------|--------------------------|-------------------|--------------------------|-------------------|
| <i>(in millions of Korean won)</i> | <u>December 31, 2017</u> |                   | <u>December 31, 2016</u> |                   |
|                                    | <u>Carrying amount</u>   | <u>Fair value</u> | <u>Carrying amount</u>   | <u>Fair value</u> |
| Long-term deposits received        | 10,952                   | 10,840            | 9,586                    | 10,094            |

Fair value of non-current other payables is calculated based on a nominal value of expected future cash outflows discounted using rates of return on non-guaranteed bonds having similar credit ratings as the Group.

|               |                          |                          |
|---------------|--------------------------|--------------------------|
|               | <u>December 31, 2017</u> | <u>December 31, 2016</u> |
| Discount rate | 2.79%                    | 2.02%                    |

*(d) Current financial assets and liabilities*

As current financial assets and liabilities' maturity is short-term, their fair value is approximation of carrying amount.

**5.3 Fair Value Hierarchy**

Assets measured at fair value or for which the fair value is disclosed are categorized within the fair value hierarchy, and the defined levels are as follows:

- Level 1: Quoted prices (unadjusted) in active markets for identical assets or liabilities.
- Level 2: Inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly (that is, as prices) or indirectly (that is, derived from prices).
- Level 3: Inputs for the asset or liability that are not based on observable market data (that is, unobservable inputs).

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Fair value hierarchy classifications of the financial assets and financial liabilities that are measured at fair value or its fair value is disclosed as at December 31, 2017 and 2016, are as follows:

*(in millions of Korean won)*

|   | <b>December 31, 2017</b> |                |                |              |
|---|--------------------------|----------------|----------------|--------------|
|   | <b>Level 1</b>           | <b>Level 2</b> | <b>Level 3</b> | <b>Total</b> |
| <b>Financial asset/liabilities that are measured at fair value</b>          |                          |                |                |              |
| Financial assets at fair value through profit or loss                       | 51,799                   | -              | -              | 51,799       |
| Derivative financial instruments (assets)                                   | -                        | 666            | -              | 666          |
| Available-for-sale financial assets   | 233,238                  | -              | 5,791          | 239,029      |
| Derivative financial instruments (liabilities)                              | -                        | 194            | -              | 194          |
| Non-current other receivables   | -                        | 9,083          | -              | 9,083        |
| Non-current other payables  | -                        | 10,840         | -              | 10,840       |
| Borrowings  | -                        | -              | 8,201          | 8,201        |
| <b>Financial asset/liabilities that are not measured at fair value: N/A</b> |                          |                |                |              |

*(in millions of Korean won)*

|   | <b>December 31, 2016</b> |                |                |              |
|---|--------------------------|----------------|----------------|--------------|
|   | <b>Level 1</b>           | <b>Level 2</b> | <b>Level 3</b> | <b>Total</b> |
| <b>Financial asset/liabilities that are measured at fair value</b>          |                          |                |                |              |
| Financial assets at fair value through profit or loss                       | 74,272                   | -              | -              | 74,272       |
| Derivative financial instruments (assets)                                   | -                        | 45             | -              | 45           |
| Available-for-sale financial assets   | 194,067                  | -              | -              | 194,067      |
| Derivative financial instruments (liabilities)                              | -                        | 1,065          | -              | 1,065        |
| Non-current other receivables   | -                        | 11,287         | -              | 11,287       |
| Non-current other payables  | -                        | 10,094         | -              | 10,094       |
| Borrowings  | -                        | -              | 9,460          | 9,460        |
| <b>Financial asset/liabilities that are not measured at fair value: N/A</b> |                          |                |                |              |

The fair value of financial instruments traded in active markets is based on quoted market prices at the end of the reporting period. A market is regarded as active if quoted prices are readily and regularly available from an exchange, dealer, broker, an entity in the same industry, pricing

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service, or regulatory agency, and those prices represent actual and regularly occurring market transactions on an arm's length basis. The quoted market price used for financial assets held by the Group is the current bid price. These instruments are included in Level 1. The financial instruments within Level 1 consist of listed equity securities which are categorized as available-for-sale securities and others.

The fair value of financial instruments that are not traded in an active market is determined by using valuation techniques. The Group uses various valuation techniques and makes judgments based on current market conditions. These valuation techniques maximize the use of observable market data where it is available and rely as little as possible on entity specific estimates. If all significant inputs required to measure the fair value an instrument are observable, the instrument is included in Level 2. The fair value categorized as Level 2 consists of compound financial instruments, such as corporate bonds which derivative contracts are embedded in, and others. The fair value of compound financial instruments are measured at present value based on the forward exchange rate at the end of reporting period.

If one or more of the significant inputs is not based on observable market data, the instrument is included in Level 3.

Valuation techniques and inputs used in Level 3 fair value measurements are as follows:

| <i>(in millions of<br/>Korean won)</i> | 2017          |       |                         |  |                    |
|--|---------------|-------|-------------------------|--|--------------------|
|  | Fair<br>value | Level | Valuation<br>techniques | Inputs                                 | Range of<br>inputs |
| Available-for-sale<br>financial assets | 5,791         | 3     | Income approach         | Perpetual growth rate<br>Discount rate | 0~1%<br>8.4%~9.7%  |

Borrowings categorized as Level 3 are measured at present value by using a discount rate reflecting credit risk and others.

Equity instruments that do not have a quoted price in an active market and are measured at cost are not included in above hierarchy because there are no fair value measurements recognized in the statement of financial position.

**6. Segment Information**

Management has determined the operating segments based on the reports reviewed by the board of directors that are used to make strategic decisions.

The segments of the Group are strategic business divisions providing different products and services. They are reported separately because each business division requires different technologies and marketing strategies. The main products and services of each business division for the year ended December 31, 2017, are as follows:

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|                    | <b>Products and services</b>  |
|--------------------|---|
| Noonnoppi business | Noonnoppi home-school material, Premium home-school material (CHAIHONG, Soluny), HRD service business |
| Media business     | Publication, Book center, Media business and others   |
| Other              | Rental service, Textbook business, Resort business, Managing and supporting department and others     |
| Subsidiaries       | Domestic/Overseas subsidiaries  |

The segment information for sales and operating income for the years ended December 31, 2017 and 2016, are as follows:

(in millions of Korean won)

|                            | <b>2017</b>          |                         | <b>2016</b>          |                         |
|----------------------------|----------------------|-------------------------|----------------------|-------------------------|
|                            | <b>Segment sales</b> | <b>Operating income</b> | <b>Segment sales</b> | <b>Operating income</b> |
| Noonnoppi business         | 692,717              | 48,669                  | 673,421              | 41,248                  |
| Media business             | 40,946               | (767)                   | 64,646               | 1,407                   |
| Other                      | 23,107               | (806)                   | 33,189               | 2,876                   |
| Subsidiaries               | 67,385               | (3,130)                 | 81,466               | (2,711)                 |
|                            | <u>824,155</u>       | <u>43,966</u>           | <u>852,722</u>       | <u>42,820</u>           |
| Inter-segment transactions | (11,952)             | 1,519                   | (32,005)             | 27                      |
|                            | <u>812,203</u>       | <u>45,485</u>           | <u>820,717</u>       | <u>42,847</u>           |

Segment information of share of profit from associates, depreciation, amortization and fluctuation of non-current assets for the years ended December 31, 2017 and 2016, follows:

|                             | <b>2017</b>                          |                                   |  | <b>2016</b>                          |                                   |  |
|-----------------------------|--------------------------------------|-----------------------------------|--|--------------------------------------|-----------------------------------|--|
|                             | <b>Profit (loss) from associates</b> | <b>Depreciation /Amortization</b> | <b>Increase (decrease) of non-current assets<sup>1</sup></b> | <b>Profit (loss) from associates</b> | <b>Depreciation/ Amortization</b> | <b>Increase (decrease) of non-current assets<sup>1</sup></b> |
| (in millions of Korean won) |                                      |                                   |  |                                      |                                   |  |
| Noonnoppi business          | -                                    | 18,476                            | (1,817)  | -                                    | 17,948                            | (40)   |
| Media business              | -                                    | 2,781                             | 13,281   | -                                    | 3,743                             | (2,465)  |
| Other                       | 595                                  | 7,413                             | 7,400  | 865                                  | 7,408                             | 16,971   |
| Subsidiaries                | -                                    | 5,302                             | (4,894)  | -                                    | 5,990                             | (502)  |
|                             | <u>595</u>                           | <u>33,972</u>                     | <u>13,970</u>  | <u>865</u>                           | <u>35,089</u>                     | <u>13,964</u>  |
| Inter-segment transactions  | -                                    | 19                                | (302)  | -                                    | -                                 | -  |
|                             | <u>595</u>                           | <u>33,991</u>                     | <u>13,668</u>  | <u>865</u>                           | <u>35,089</u>                     | <u>13,964</u>  |

<sup>1</sup> Financial instrument, deferred tax assets and investments in associates are excluded.

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Details of segment information of assets, liabilities and investments in associates for the years ended December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i> | 2017           |                           |                | 2016           |                           |                |
|------------------------------------|----------------|---------------------------|----------------|----------------|---------------------------|----------------|
|                                    | Assets         | Investments in associates | Liabilities    | Assets         | Investments in associates | Liabilities    |
| Noonoppi business                  | 101,244        | -                         | 75,558         | 97,825         | -                         | 76,632         |
| Media business                     | 33,391         | -                         | 13,239         | 23,706         | -                         | 13,140         |
| Other                              | 720,892        | 17,071                    | 57,810         | 637,140        | 6,595                     | 58,293         |
| Subsidiaries                       | 98,896         | -                         | 51,711         | 110,005        | -                         | 57,092         |
|                                    | <u>954,423</u> | <u>17,071</u>             | <u>198,318</u> | <u>868,676</u> | <u>6,595</u>              | <u>205,157</u> |
| Inter-segment transactions         | (97,326)       | -                         | (18,153)       | (20,537)       | -                         | (19,815)       |
|                                    | <u>857,097</u> | <u>17,071</u>             | <u>180,165</u> | <u>848,139</u> | <u>6,595</u>              | <u>185,342</u> |

Sales by geographic areas for the years ended December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i> | 2017           | 2016           |
|------------------------------------|----------------|----------------|
| Domestic                           | 787,985        | 797,683        |
| Overseas                           | 24,218         | 23,034         |
|                                    | <u>812,203</u> | <u>820,717</u> |

There is no external customer attributing to more than 10% of total sales for the years ended December 31, 2017 and 2016.

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**7. Financial Instruments by Category**

Categorizations of financial instruments as at December 31, 2017 and 2016, are as follows:

(in millions of Korean won)

|  | December 31, 2017   |                          |  | Total          |
|--|---|--------------------------|--|----------------|
|  | Financial assets at<br>fair value through<br>profit or loss | Loans and<br>receivables | Available-for-sale<br>financial assets |                |
| <b>Financial assets</b>                                  |   |                          |  |                |
| <b>Current</b>   |   |                          |  |                |
| Cash and cash equivalents                                | -   | 60,252                   | -                                      | 60,252         |
| Financial deposits                                       | -   | 20,688                   | -                                      | 20,688         |
| Trade receivables  | -   | 21,355                   | -                                      | 21,355         |
| Other receivables  | -   | 43,396                   | -                                      | 43,396         |
| Financial assets at fair value<br>through profit or loss | 51,799  | -                        | -                                      | 51,799         |
| Derivative financial instruments                         | 666   | -                        | -                                      | 666            |
| Available-for-sale financial assets                      | -   | -                        | 103,810                                | 103,810        |
|  | <u>52,465</u>   | <u>145,691</u>           | <u>103,810</u>                         | <u>301,966</u> |
| <b>Non-current</b>                                       |   |                          |  |                |
| Financial deposits                                       | -   | -                        | -                                      | -              |
| Other receivables  | -   | 9,048                    | -                                      | 9,048          |
| Available-for-sale financial assets                      | -   | -                        | 161,564                                | 161,564        |
|  | <u>-</u>  | <u>9,048</u>             | <u>161,564</u>                         | <u>170,612</u> |
|  | <u>52,465</u>   | <u>154,739</u>           | <u>265,374</u>                         | <u>472,578</u> |

(in millions of Korean won)

|                                  | December 31, 2017  |   | Total          |
|----------------------------------|--|---|----------------|
|                                  | Financial liabilities at<br>fair value through profit<br>or loss | Financial liabilities<br>carried at<br>amortized cost |                |
| <b>Financial liabilities</b>     |  |   |                |
| <b>Current</b>                   |  |   |                |
| Trade payables                   | -  | 8,894   | 8,894          |
| Other payables                   | -  | 69,781  | 69,781         |
| Derivative financial instruments | 194  | -   | 194            |
| Borrowings                       | -  | 19,930  | 19,930         |
|                                  | <u>194</u>   | <u>98,605</u>   | <u>98,799</u>  |
| <b>Non-current</b>               |  |   |                |
| Other payables                   | -  | 10,952  | 10,952         |
| Borrowings                       | -  | 8,201   | 8,201          |
|                                  | <u>-</u>   | <u>19,153</u>   | <u>19,153</u>  |
|                                  | <u>194</u>   | <u>117,758</u>  | <u>117,952</u> |

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(in millions of Korean won)

|  | December 31, 2016   |                          |  | Total          |
|--|---|--------------------------|--|----------------|
|  | Financial assets at<br>fair value through<br>profit or loss | Loans and<br>receivables | Available-for-sale<br>financial assets |                |
| <b>Financial assets</b>                                  |   |                          |  |                |
| <b>Current</b>   |   |                          |  |                |
| Cash and cash equivalents                                | -   | 96,847                   | -                                      | 96,847         |
| Financial deposits                                       | -   | 12,121                   | -                                      | 12,121         |
| Trade receivables  | -   | 22,111                   | -                                      | 22,111         |
| Other receivables  | -   | 41,088                   | -                                      | 41,088         |
| Financial assets at fair value<br>through profit or loss | 74,272  | -                        | -                                      | 74,272         |
| Derivative financial instruments                         | 45  | -                        | -                                      | 45             |
| Available-for-sale financial assets                      | -   | -                        | 72,906                                 | 72,906         |
|  | <u>74,317</u>   | <u>172,167</u>           | <u>72,906</u>                          | <u>319,390</u> |
| <b>Non-current</b>                                       |   |                          |  |                |
| Financial deposits                                       | -   | 300                      | -                                      | 300            |
| Other receivables  | -   | 11,080                   | -                                      | 11,080         |
| Available-for-sale financial assets                      | -   | -                        | 149,403                                | 149,403        |
|  | <u>-</u>  | <u>11,380</u>            | <u>149,403</u>                         | <u>160,783</u> |
|  | <u>74,317</u>   | <u>183,547</u>           | <u>222,309</u>                         | <u>480,173</u> |

(in millions of Korean won)

|                                  | December 31, 2016  |   | Total          |
|----------------------------------|--|---|----------------|
|                                  | Financial liabilities at<br>fair value through profit<br>or loss | Financial liabilities<br>carried at<br>amortized cost |                |
| <b>Financial liabilities</b>     |  |   |                |
| <b>Current</b>                   |  |   |                |
| Trade payables                   | -  | 9,970   | 9,970          |
| Other payables                   | -  | 77,030  | 77,030         |
| Derivative financial instruments | 1,065  | -   | 1,065          |
| Borrowings                       | -  | 18,774  | 18,774         |
|                                  | <u>1,065</u>   | <u>105,774</u>  | <u>106,839</u> |
| <b>Non-current</b>               |  |   |                |
| Other payables                   | -  | 9,586   | 9,586          |
| Borrowings                       | -  | 9,460   | 9,460          |
|                                  | <u>-</u>   | <u>19,046</u>   | <u>19,046</u>  |
|                                  | <u>1,065</u>   | <u>124,820</u>  | <u>125,885</u> |





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**8. Cash and Cash Equivalents, and Financial Deposits**

Details of cash and cash equivalents as at December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i> | <u>December 31, 2017</u> | <u>December 31, 2016</u> |
|------------------------------------|--------------------------|--------------------------|
| Ordinary deposits                  | 25,593                   | 27,147                   |
| Short-term deposits                | 34,659                   | 69,700                   |
|                                    | <u>60,252</u>            | <u>96,847</u>            |

The financial deposits restricted in use as at December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i> | <u>December 31, 2017</u> | <u>December 31, 2016</u> | <u>Reason</u>                |
|------------------------------------|--------------------------|--------------------------|------------------------------|
| Financial deposits                 | 1,315                    | 1,315                    | Security deposits and others |

**9. Trade Receivables and Other Receivables**

Details of trade receivables and other receivables as at December 31, 2017 and 2016, are as follows:

|                                    |                        | <u>December 31, 2017</u>                      |                        |  |
|------------------------------------|------------------------|---|------------------------|--|
| <i>(in millions of Korean won)</i> | <u>Original amount</u> | <u>Less : allowance for doubtful accounts</u> | <u>Carrying amount</u> |  |
| <b>Current</b>                     |                        |   |                        |  |
| Trade receivables <sup>1</sup>     | 28,470                 | (7,116)                                       | 21,354                 |  |
| Non-trade receivables              | 8,284                  | (5,250)                                       | 3,034                  |  |
| Accrued income                     | 204                    | -   | 204                    |  |
| Loans                              | 27                     | -   | 27                     |  |
| Deposits                           | 40,131                 | -   | 40,131                 |  |
|                                    | <u>77,116</u>          | <u>(12,366)</u>                               | <u>64,750</u>          |  |
| <b>Non-current</b>                 |                        |   |                        |  |
| Loans                              | 9                      | -   | 9                      |  |
| Deposits                           | 9,039                  | -   | 9,039                  |  |
|                                    | <u>9,048</u>           | <u>-</u>                                      | <u>9,048</u>           |  |
|                                    | <u>86,164</u>          | <u>(12,366)</u>                               | <u>73,798</u>          |  |
|                                    |                        | <u>December 31, 2016</u>                      |                        |  |
| <i>(in millions of Korean won)</i> | <u>Original amount</u> | <u>Less : allowance for doubtful accounts</u> | <u>Carrying amount</u> |  |
| <b>Current</b>                     |                        |   |                        |  |
| Trade receivables <sup>1</sup>     | 28,852                 | (6,741)                                       | 22,111                 |  |
| Non-trade receivables              | 8,698                  | (5,648)                                       | 3,050                  |  |
| Accrued income                     | 49                     | -   | 49                     |  |
| Loans                              | 3                      | -   | 3                      |  |

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| <i>(in millions of Korean won)</i> | <b>December 31, 2016</b> |   |                        |
|------------------------------------|--------------------------|---|------------------------|
|                                    | <b>Original amount</b>   | <b>Less : allowance for<br/>doubtful accounts</b> | <b>Carrying amount</b> |
|                                    | Deposits                 | 37,986  | -                      |
|                                    | <u>75,588</u>            | <u>(12,389)</u>                                   | <u>63,199</u>          |
| <b>Non-current</b>                 |                          |   |                        |
| Loans                              | -                        | -   | -                      |
| Deposits                           | 11,080                   | -   | 11,080                 |
|                                    | <u>11,080</u>            | <u>-</u>  | <u>11,080</u>          |
|                                    | <u>86,668</u>            | <u>(12,389)</u>                                   | <u>74,279</u>          |

<sup>1</sup>The Group's certain trade receivables are provided with collateral and others from counterparties.

The aging analysis of trade and other receivables as at December 31, 2017 and 2016, is as follows:

| <i>(in millions of Korean won)</i> | <b>December 31, 2017</b> |                                  |                          |                           |                          |                             |               |
|------------------------------------|--------------------------|----------------------------------|--------------------------|---------------------------|--------------------------|-----------------------------|---------------|
|                                    | <b>Current</b>           | <b>Past due but not impaired</b> |                          |                           |                          | <b>Impaired<sup>1</sup></b> | <b>Total</b>  |
|                                    |                          | <b>Up to 3<br/>months</b>        | <b>3 to 6<br/>months</b> | <b>6 to 12<br/>months</b> | <b>Over one<br/>year</b> |                             |               |
| <b>Current</b>                     |                          |                                  |                          |                           |                          |                             |               |
| Trade receivables                  | 16,722                   | 865                              | 1,341                    | 1,754                     | 1,415                    | 6,373                       | 28,470        |
| Non-trade receivables              | 1,695                    | 176                              | 236                      | 366                       | 561                      | 5,250                       | 8,284         |
| Accrued income                     | 204                      | -                                | -                        | -                         | -                        | -                           | 204           |
| Loans                              | 27                       | -                                | -                        | -                         | -                        | -                           | 27            |
| Deposits                           | 40,131                   | -                                | -                        | -                         | -                        | -                           | 40,131        |
|                                    | <u>58,779</u>            | <u>1,041</u>                     | <u>1,577</u>             | <u>2,120</u>              | <u>1,976</u>             | <u>11,623</u>               | <u>77,116</u> |
| <b>Non-current</b>                 |                          |                                  |                          |                           |                          |                             |               |
| Loans                              | 9                        | -                                | -                        | -                         | -                        | -                           | 9             |
| Deposits                           | 9,039                    | -                                | -                        | -                         | -                        | -                           | 9,039         |
|                                    | <u>9,048</u>             | <u>-</u>                         | <u>-</u>                 | <u>-</u>                  | <u>-</u>                 | <u>-</u>                    | <u>9,048</u>  |
|                                    | <u>67,827</u>            | <u>1,041</u>                     | <u>1,577</u>             | <u>2,120</u>              | <u>1,976</u>             | <u>11,623</u>               | <u>86,164</u> |

| <i>(in millions of Korean won)</i> | <b>December 31, 2016</b> |                                  |                          |                           |                          |                             |               |
|------------------------------------|--------------------------|----------------------------------|--------------------------|---------------------------|--------------------------|-----------------------------|---------------|
|                                    | <b>Current</b>           | <b>Past due but not impaired</b> |                          |                           |                          | <b>Impaired<sup>1</sup></b> | <b>Total</b>  |
|                                    |                          | <b>Up to 3<br/>months</b>        | <b>3 to 6<br/>months</b> | <b>6 to 12<br/>months</b> | <b>Over one<br/>year</b> |                             |               |
| <b>Current</b>                     |                          |                                  |                          |                           |                          |                             |               |
| Trade receivables                  | 16,424                   | 2,523                            | 1,847                    | 2,007                     | 211                      | 5,840                       | 28,852        |
| Non-trade receivables              | 2,313                    | 485                              | 10                       | 14                        | 228                      | 5,648                       | 8,698         |
| Accrued income                     | 49                       | -                                | -                        | -                         | -                        | -                           | 49            |
| Loans                              | 3                        | -                                | -                        | -                         | -                        | -                           | 3             |
| Deposits                           | 37,986                   | -                                | -                        | -                         | -                        | -                           | 37,986        |
|                                    | <u>56,775</u>            | <u>3,008</u>                     | <u>1,857</u>             | <u>2,021</u>              | <u>439</u>               | <u>11,488</u>               | <u>75,588</u> |

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| <b>Non-current</b> |        |       |       |       |     |        |        |
|--------------------|--------|-------|-------|-------|-----|--------|--------|
| Deposits           | 11,080 | -     | -     | -     | -   | -      | 11,080 |
|                    | 11,080 | -     | -     | -     | -   | -      | 11,080 |
|                    | 67,855 | 3,008 | 1,857 | 2,021 | 439 | 11,488 | 86,668 |

<sup>1</sup> The impaired receivables have been fully provided with allowance for doubtful accounts.

The Group assesses whether a loss event exists for individual receivables and recognizes impairment loss with the difference between the recoverable amount and its carrying amount based on such assessment. The impairment loss for the overdue receivables is recognized by applying the provision rates based on historical experience considering the overdue period of receivables or by considering collateral provided and others.

Changes in bad debts allowance for the years ended December 31, 2017 and 2016, are as follows:

(in millions of Korean won)

|                       | <b>2017</b>              |                 |                  |                             |                       |
|-----------------------|--------------------------|-----------------|------------------|-----------------------------|-----------------------|
|                       | <b>Beginning balance</b> | <b>Addition</b> | <b>Write-off</b> | <b>Exchange differences</b> | <b>Ending balance</b> |
| Trade receivables     | 6,741                    | 785             | (374)            | (36)                        | 7,116                 |
| Non-trade receivables | 5,648                    | 159             | (426)            | (131)                       | 5,250                 |
|                       | 12,389                   | 944             | (800)            | (167)                       | 12,366                |

(in millions of Korean won)

|                       | <b>2016</b>              |                 |                  |                             |                       |
|-----------------------|--------------------------|-----------------|------------------|-----------------------------|-----------------------|
|                       | <b>Beginning balance</b> | <b>Addition</b> | <b>Write-off</b> | <b>Exchange differences</b> | <b>Ending balance</b> |
| Trade receivables     | 6,519                    | 374             | (162)            | 10                          | 6,741                 |
| Non-trade receivables | 5,565                    | 359             | (178)            | (98)                        | 5,648                 |
|                       | 12,084                   | 733             | (340)            | (88)                        | 12,389                |

The provision of bad debts allowance for impaired receivables have been included in 'selling and administrative expenses' in the statement of profit or loss.

**10. Financial Assets at Fair Value through Profit or Loss**

Details of financial assets at fair value through profit or loss as at December 31, 2017 and 2016, are as follows:

(in millions of Korean won)

|                                     | <b>December 31, 2017</b> | <b>December 31, 2016</b> |
|-------------------------------------|--------------------------|--------------------------|
| Equity-linked securities and others | 51,799                   | 74,272                   |

Financial assets at fair value through profit or loss are presented within operating activities as part of changes in working capital in the statements of cash flows.

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**11. Derivative Financial Instruments**

Details of derivative financial instruments as at December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i>             | <b>December 31, 2017</b> |                    | <b>December 31, 2016</b> |                    |
|--|--------------------------|--------------------|--------------------------|--------------------|
|  | <b>Assets</b>            | <b>Liabilities</b> | <b>Assets</b>            | <b>Liabilities</b> |
| Currency forward exchange contracts and others | 666                      | 194                | 45                       | 1,065              |

**12. Available-for-sale Financial Assets**

Details of available-for-sale financial assets as at December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i> | <b>December 31, 2017</b> | <b>December 31, 2016</b> |
|------------------------------------|--------------------------|--------------------------|
| <b>Current</b>                     |                          |                          |
| Beneficiary certificate            | 103,810                  | 72,906                   |
|                                    | <u>103,810</u>           | <u>72,906</u>            |
| <b>Non-Current</b>                 |                          |                          |
| Beneficiary certificate            | 7,674                    | 3,258                    |
| Marketable equity securities       | 101,625                  | 103,898                  |
| Non-marketable equity securities   | 32,136                   | 28,242                   |
| Debt securities                    | 20,129                   | 14,005                   |
|                                    | <u>161,564</u>           | <u>149,403</u>           |
|                                    | <u>265,374</u>           | <u>222,309</u>           |

Beneficiary certificates and marketable equity securities are measure based on quoted price in active market. Non-marketable equity securities are measured at cost when the ranges of expected cash flows are significant and the probabilities of the various estimates cannot be reasonably assessed.

Details of marketable equity securities as at December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i> | <b>December 31, 2017</b> |                   |                    |
|------------------------------------|--------------------------|-------------------|--------------------|
|                                    | <b>Acquisition cost</b>  | <b>Fair value</b> | <b>Book amount</b> |
| Shinhan Financial Group Co., Ltd.  | 23,131                   | 89,743            | 89,743             |
| Others                             | 10,993                   | 11,882            | 11,882             |
|                                    | <u>34,124</u>            | <u>101,625</u>    | <u>101,625</u>     |
| <i>(in millions of Korean won)</i> | <b>December 31, 2016</b> |                   |                    |
|                                    | <b>Acquisition cost</b>  | <b>Fair value</b> | <b>Book amount</b> |
| Shinhan Financial Group Co., Ltd.  | 27,126                   | 96,404            | 96,404             |
| Inzi Controls Co., Ltd.            | 68                       | 31                | 31                 |
| Others                             | 7,266                    | 7,463             | 7,463              |

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|        |         |         |
|--------|---------|---------|
| 34,460 | 103,898 | 103,898 |
|--------|---------|---------|

Changes in available-for-sale financial assets for the years ended December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i> | 2017              |                |                  |               |                      |                         |                |
|------------------------------------|-------------------|----------------|------------------|---------------|----------------------|-------------------------|----------------|
|                                    | Beginning balance | Acquisition    | Disposal         | Valuation     | Exchange differences | Impairment <sup>1</sup> | Ending balance |
| Beneficiary certificate            | 76,164            | 149,072        | (117,320)        | 3,568         | -                    | -                       | 111,484        |
| Marketable equity securities       | 103,898           | 24,271         | (34,777)         | 8,233         | -                    | -                       | 101,625        |
| Non-marketable equity securities   | 28,242            | 12,000         | (4,968)          | -             | (1)                  | (3,137)                 | 32,136         |
| Debt securities                    | 14,005            | 20,150         | (14,121)         | 95            | -                    | -                       | 20,129         |
|                                    | <u>222,309</u>    | <u>205,493</u> | <u>(171,186)</u> | <u>11,896</u> | <u>(1)</u>           | <u>(3,137)</u>          | <u>265,374</u> |

<sup>1</sup> The Group recognized an impairment loss on available-for-sale financial assets amounting to ₩3,137 million as the book amount exceeded its recoverable value.

| <i>(in millions of Korean won)</i> | 2016              |                |                  |               |                      |                         |                                  |                |
|------------------------------------|-------------------|----------------|------------------|---------------|----------------------|-------------------------|----------------------------------|----------------|
|                                    | Beginning balance | Acquisition    | Disposal         | Valuation     | Exchange differences | Impairment <sup>1</sup> | Transfer to assets held-for-sale | Ending balance |
| Beneficiary certificate            | 47,899            | 71,632         | (44,410)         | 1,043         | -                    | -                       | -                                | 76,164         |
| Marketable equity securities       | 108,405           | 37,127         | (53,077)         | 12,637        | -                    | -                       | (1,194)                          | 103,898        |
| Non-marketable equity securities   | 26,371            | 5,363          | (2,302)          | -             | 541                  | (1,055)                 | (676)                            | 28,242         |
| Debt securities                    | 15,830            | 16,111         | (17,212)         | (24)          | -                    | (600)                   | (100)                            | 14,005         |
|                                    | <u>198,505</u>    | <u>130,233</u> | <u>(117,001)</u> | <u>13,656</u> | <u>541</u>           | <u>(1,655)</u>          | <u>(1,970)</u>                   | <u>222,309</u> |

<sup>1</sup> The Group recognized an impairment loss on available-for-sale financial assets amounting to ₩1,655 million as the book amount exceeded its recoverable value.

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**13. Inventories**

Details of inventories as at December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i>               | <u>December 31, 2017</u> | <u>December 31, 2016</u> |
|--|--------------------------|--------------------------|
| Merchandise                                      | 4,371                    | 6,777                    |
| Finished goods                                   | 10,114                   | 11,184                   |
| Stored goods                                     | 1,804                    | 2,113                    |
| Raw materials                                    | <u>498</u>               | <u>657</u>               |
|  | 16,787                   | 20,731                   |
| Allowance for losses on valuation of inventories | <u>(710)</u>             | <u>(616)</u>             |
|  | <u>16,077</u>            | <u>20,115</u>            |

The cost of inventories recognized as expense and included in 'cost of sales' amounts to ₩45,155 million (2016: ₩47,872 million). Losses on valuation of inventories amounts to ₩94 million (2016: nil) and there is no reversal of allowance for losses on valuation of inventories (2016: ₩126 million).

**14. Other Assets**

Details of other assets as at December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i> | <u>December 31, 2017</u> | <u>December 31, 2016</u> |
|------------------------------------|--------------------------|--------------------------|
| <b>Current</b>                     |                          |                          |
| Advances                           | 770                      | 915                      |
| Prepaid expenses                   | <u>3,409</u>             | <u>3,127</u>             |
|                                    | <u>4,179</u>             | <u>4,042</u>             |
| <b>Non-current</b>                 |                          |                          |
| Prepaid expenses                   | <u>223</u>               | <u>366</u>               |
|                                    | <u>223</u>               | <u>366</u>               |
|                                    | <u>4,402</u>             | <u>4,408</u>             |

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**15. Investments in Associates**

Details of investments in associates as at December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i>   | <b>Country</b> | <b>Percentage of ownership (%)</b> |                          | <b>December 31, 2017</b> | <b>December 31, 2016</b> |
|--|----------------|------------------------------------|--------------------------|--------------------------|--------------------------|
|  |                | <b>December 31, 2017</b>           | <b>December 31, 2016</b> |                          |                          |
| DKI Growing Star 1 Investment partnership  | Korea          | 24.00                              | 24.00                    | 1,518                    | 2,389                    |
| With the Green Co., Ltd.   | Korea          | 45.70                              | 45.70                    | 4,113                    | 4,206                    |
| HR DAVINCHI Private Securities Investment Trust 2 <sup>1</sup>   | Korea          | 48.71                              | -                        | 5,352                    | -                        |
| IBK A One Convertible Professional Investment Type Private Security Investment Trust 1 <sup>1</sup>                        | Korea          | 28.35                              | -                        | 3,073                    | -                        |
| Rico-Synergy Collaboration Multi Mezzanine Specialized Investment Model Private Equity Investment Trust No. 3 <sup>1</sup> | Korea          | 30.00                              | -                        | 3,015                    | -                        |
|  |                |                                    |                          | <b>17,071</b>            | <b>6,595</b>             |

<sup>1</sup> The above entities are included in associates as the Group newly acquired these entities during 2017.

Changes in investments in associates for the years ended December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i>         | <b>2017</b>   | <b>2016</b>  |
|--|---------------|--------------|
| Beginning balance                          | 6,595         | 4,694        |
| Acquisition                                | 11,000        | 3,893        |
| Share of profit (loss)                     | 595           | 865          |
| Share of other comprehensive income (loss) | 93            | (1,417)      |
| Disposal                                   | (1,212)       | (348)        |
| Dividend                                   | -             | (1,092)      |
| Ending balance                             | <b>17,071</b> | <b>6,595</b> |



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Summarized financial information of associates for the year ended December 31, 2017, is as follows:

| <i>(in millions of Korean won)</i>  | 2017           |                    |                     |                         |       |                            | Total comprehensive income (loss) |
|---|----------------|--------------------|---------------------|-------------------------|-------|----------------------------|-----------------------------------|
|   | Current assets | Non-current assets | Current liabilities | Non-current liabilities | Sales | Profit (loss) for the year |                                   |
| DKI Growing Star 1  |                |                    |                     |                         |       |                            |                                   |
| Investment partnership  | 355            | 6,141              | 171                 | -                       | -     | 1,601                      | 1,421                             |
| With the Green Co., Ltd.  | 272            | 8,737              | 9                   | -                       | 91    | (204)                      | (204)                             |
| HR DAVINCHI Private Securities Investment Trust 2   | 409            | 10,576             | -                   | -                       | -     | 534                        | 746                               |
| IBK A One Convertible Professional Investment Type Private Security Investment Trust 1                        | 7,319          | 3,522              | -                   | -                       | -     | 31                         | 258                               |
| Rico-Synergy Collaboration Multi Mezzanine Specialized Investment Model Private Equity Investment Trust No. 3 | 1,836          | 8,219              | 3                   | -                       | -     | 156                        | 50                                |

| <i>(in millions of Korean won)</i> | 2016           |                    |                     |                         |       |                            | Total comprehensive income (loss) |
|------------------------------------|----------------|--------------------|---------------------|-------------------------|-------|----------------------------|-----------------------------------|
|                                    | Current assets | Non-current assets | Current liabilities | Non-current liabilities | Sales | Profit (loss) for the year |                                   |
| DKI Growing Star 1                 |                |                    |                     |                         |       |                            |                                   |
| Investment partnership             | 1,354          | 8,788              | 188                 | -                       | -     | 3,779                      | (720)                             |
| With the Green Co., Ltd.           | 1,219          | 7,989              | 4                   | -                       | -     | (94)                       | (94)                              |

Details of adjusting its interest in associates as at December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i>                | December 31, 2017 |                    |                      |          |                            |                     | Book amount at the end of year |
|---|-------------------|--------------------|----------------------|----------|----------------------------|---------------------|--------------------------------|
|   | Net assets        | Group's share in % | Group's share in KRW | Goodwill | Unrealized gains or losses | Unrecognized losses |                                |
| DKI Growing Star 1                                |                   |                    |                      |          |                            |                     |                                |
| Investment partnership                            | 6,325             | 24.00              | 1,518                | -        | -                          | -                   | 1,518                          |
| With the Green Co., Ltd.                          | 9,000             | 45.70              | 4,113                | -        | -                          | -                   | 4,113                          |
| HR DAVINCHI Private Securities Investment Trust 2 | 10,985            | 48.71              | 5,352                | -        | -                          | -                   | 5,352                          |
| IBK A One Convertible Professional Investment     | 10,841            | 28.35              | 3,073                | -        | -                          | -                   | 3,073                          |

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| <b>December 31, 2017</b>   |                   |                           |                             |                 |                                   |                            |                                       |
|--|-------------------|---------------------------|-----------------------------|-----------------|-----------------------------------|----------------------------|---------------------------------------|
| <i>(in millions of Korean won)</i>   | <b>Net assets</b> | <b>Group's share in %</b> | <b>Group's share in KRW</b> | <b>Goodwill</b> | <b>Unrealized gains or losses</b> | <b>Unrecognized losses</b> | <b>Book amount at the end of year</b> |
| Type Private Security Investment Trust 1   |                   |                           |                             |                 |                                   |                            |                                       |
| Rico-Synergy Collaboration Multi Mezzanine Specialized Investment Model Private Equity |                   |                           |                             |                 |                                   |                            |                                       |
| Investment Trust No. 3   | 10,052            | 30.00                     | 3,015                       | -               | -                                 | -                          | 3,015                                 |
|  | <u>47,203</u>     |                           | <u>17,071</u>               | <u>-</u>        | <u>-</u>                          | <u>-</u>                   | <u>17,071</u>                         |

| <b>December 31, 2016</b>           |                   |                           |                             |                 |                                   |                            |                                       |
|------------------------------------|-------------------|---------------------------|-----------------------------|-----------------|-----------------------------------|----------------------------|---------------------------------------|
| <i>(in millions of Korean won)</i> | <b>Net assets</b> | <b>Group's share in %</b> | <b>Group's share in KRW</b> | <b>Goodwill</b> | <b>Unrealized gains or losses</b> | <b>Unrecognized losses</b> | <b>Book amount at the end of year</b> |
| DKI Growing Star 1                 |                   |                           |                             |                 |                                   |                            |                                       |
| Investment partnership             | 9,954             | 24.00                     | 2,389                       | -               | -                                 | -                          | 2,389                                 |
| With the Green Co., Ltd.           | <u>9,204</u>      | 45.70                     | <u>4,206</u>                | <u>-</u>        | <u>-</u>                          | <u>-</u>                   | <u>4,206</u>                          |
|                                    | <u>19,158</u>     |                           | <u>6,595</u>                | <u>-</u>        | <u>-</u>                          | <u>-</u>                   | <u>6,595</u>                          |

**16. Non-current Assets Held for sale**

On October 31, 2016, the Group decided the dissolution of Daekyo New Growth Investment Partnership with the approval of the Board of Directors and shareholders. The available-for-sale financial assets related to Daekyo New Growth Investment Partnership are presented as held for sale. Liquidation procedure was completed on July 31, 2017.

Details of assets of disposal group classified as held for sale as at December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i>  | <b>December 31, 2017</b> | <b>December 31, 2016</b> |
|-------------------------------------|--------------------------|--------------------------|
| Available-for-sale financial assets | -                        | 3,544                    |

Cumulative income or expense recognized in other comprehensive income relates to the disposal group classified as held for sale as at December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i>                           | <b>December 31, 2017</b> | <b>December 31, 2016</b> |
|--|--------------------------|--------------------------|
| Gain on the valuation of available-for-sale financial assets | -                        | 1,257                    |

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**17. Property, Plant and Equipment**

Details of property, plant and equipment as at December 31, 2017 and 2016, are as follows:

| December 31, 2017                  |        |           |            |           |          |       |          |           |                 |                          |           |
|------------------------------------|--------|-----------|------------|-----------|----------|-------|----------|-----------|-----------------|--------------------------|-----------|
| <i>(in millions of Korean won)</i> | Land   | Buildings | Structures | Machinery | Vehicles | Tools | Supplies | Equipment | Standing timber | Construction-in-progress | Total     |
| Acquisition cost                   | 48,364 | 137,547   | 3,903      | 468       | 2,335    | 62    | 110,212  | 2,520     | 929             | 774                      | 307,114   |
| Accumulated depreciation           | -      | (29,612)  | (1,316)    | (468)     | (1,854)  | (49)  | (81,006) | (2,062)   | -               | -                        | (116,367) |
| Net book amount                    | 48,364 | 107,935   | 2,587      | -         | 481      | 13    | 29,206   | 458       | 929             | 774                      | 190,747   |

| December 31, 2016                  |        |           |            |           |          |       |          |           |                 |                          |           |
|------------------------------------|--------|-----------|------------|-----------|----------|-------|----------|-----------|-----------------|--------------------------|-----------|
| <i>(in millions of Korean won)</i> | Land   | Buildings | Structures | Machinery | Vehicles | Tools | Supplies | Equipment | Standing timber | Construction-in-progress | Total     |
| Acquisition cost                   | 53,794 | 108,756   | 3,546      | 468       | 2,119    | 114   | 95,941   | 2,395     | 528             | 26,179                   | 293,840   |
| Accumulated depreciation           | -      | (28,174)  | (1,221)    | (468)     | (1,689)  | (92)  | (69,310) | (2,023)   | -               | -                        | (102,977) |
| Net book amount                    | 53,794 | 80,582    | 2,325      | -         | 430      | 22    | 26,631   | 372       | 528             | 26,179                   | 190,863   |

Changes in property, plant and equipment for the years ended December 31, 2017 and 2016, are as follows:

| 2017                                      |         |           |            |          |       |          |           |                 |                          |          |
|---|---------|-----------|------------|----------|-------|----------|-----------|-----------------|--------------------------|----------|
| <i>(in millions of Korean won)</i>        | Land    | Buildings | Structures | Vehicles | Tools | Supplies | Equipment | Standing timber | Construction-in-progress | Total    |
| <b>At January 1</b>                       | 53,794  | 80,582    | 2,325      | 430      | 22    | 26,631   | 372       | 528             | 26,179                   | 190,863  |
| Acquisitions                              | 10      | 4,558     | 360        | 265      | -     | 14,410   | 281       | 216             | 22,250                   | 42,350   |
| Increase due to business acquisition      | -       | -         | -          | -        | -     | 1        | -         | -               | -                        | 1        |
| Disposal/disuse                           | (1,614) | -         | -          | (4)      | -     | (292)    | (45)      | -               | -                        | (1,955)  |
| Depreciation                              | -       | (3,290)   | (98)       | (194)    | (7)   | (13,117) | (150)     | -               | -                        | (16,856) |
| Reclassification to investment properties | (3,550) | (18,175)  | -          | -        | -     | -        | -         | -               | -                        | (21,725) |
| Transfer-in(out)                          | 3       | 45,861    | -          | -        | -     | 1,664    | -         | 185             | (47,655)                 | 58       |
| Exchange differences                      | (279)   | (1,601)   | -          | (16)     | (2)   | (91)     | -         | -               | -                        | (1,989)  |
| <b>At December 31</b>                     | 48,364  | 107,935   | 2,587      | 481      | 13    | 29,206   | 458       | 929             | 774                      | 190,747  |

| 2016                                      |         |           |            |          |       |          |           |                 |                          |          |
|---|---------|-----------|------------|----------|-------|----------|-----------|-----------------|--------------------------|----------|
| <i>(in millions of Korean won)</i>        | Land    | Buildings | Structures | Vehicles | Tools | Supplies | Equipment | Standing timber | Construction-in-progress | Total    |
| <b>At January 1</b>                       | 50,897  | 77,063    | 2,309      | 709      | 28    | 24,500   | 424       | 528             | 4,175                    | 160,633  |
| Acquisitions                              | 3,858   | 2         | 94         | 80       | -     | 14,462   | 109       | -               | 22,078                   | 40,683   |
| Disposal/disuse                           | -       | -         | -          | (56)     | -     | (181)    | (23)      | -               | -                        | (260)    |
| Depreciation                              | -       | (2,528)   | (90)       | (304)    | (7)   | (12,172) | (138)     | -               | -                        | (15,239) |
| Reclassification to investment properties | (1,178) | 5,372     | -          | -        | -     | -        | -         | -               | -                        | 4,194    |

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|                       |               |               |              |            |           |               |            |            |               |                |
|-----------------------|---------------|---------------|--------------|------------|-----------|---------------|------------|------------|---------------|----------------|
| Transfer-in(out)      | 62            | -             | 12           | -          | -         | -             | -          | -          | (74)          | -              |
| Exchange differences  | 155           | 673           | -            | 1          | 1         | 22            | -          | -          | -             | 852            |
| <b>At December 31</b> | <b>53,794</b> | <b>80,582</b> | <b>2,325</b> | <b>430</b> | <b>22</b> | <b>26,631</b> | <b>372</b> | <b>528</b> | <b>26,179</b> | <b>190,863</b> |

Depreciation for the years ended December 31, 2017 and 2016, is charged as follows:

|                                     |               |               |
|-------------------------------------|---------------|---------------|
| <i>(in millions of Korean won)</i>  | <b>2017</b>   | <b>2016</b>   |
| Cost of sales                       | 13,363        | 8,293         |
| Selling and administrative expenses | 3,493         | 6,946         |
|                                     | <u>16,856</u> | <u>15,239</u> |

Details of property, plant and equipment provided as collateral as at December 31, 2017, are as follows:

|                                    |                          |                       |                          |                       |                      |
|------------------------------------|--------------------------|-----------------------|--------------------------|-----------------------|----------------------|
| <i>(in millions of Korean won)</i> | <b>December 31, 2017</b> |                       |                          |                       |                      |
|                                    | <b>Book amount</b>       | <b>Secured amount</b> | <b>Related line item</b> | <b>Related amount</b> | <b>Secured party</b> |
|                                    |                          |                       | Borrowings               |                       |                      |
| Land and buildings                 | 3,288                    | 8,571                 | (Notes 21 and 32)        | 8,357                 | Woori Bank           |

As at December 31, 2017, certain property, plant and equipment are provided as leasehold rights and pledged as collateral (Note 32).

**18. Investment Properties**

Details of investment properties as at December 31, 2017 and 2016, are as follows:

|                                    |                          |                                 |                    |
|------------------------------------|--------------------------|---------------------------------|--------------------|
|                                    | <b>December 31, 2017</b> |                                 |                    |
| <i>(in millions of Korean won)</i> | <b>Acquisition cost</b>  | <b>Accumulated depreciation</b> | <b>Book amount</b> |
| Land                               | 25,862                   | -                               | 25,862             |
| Buildings                          | 132,498                  | (38,059)                        | 94,439             |
|                                    | <u>158,360</u>           | <u>(38,059)</u>                 | <u>120,301</u>     |
|                                    | <b>December 31, 2016</b> |                                 |                    |
| <i>(in millions of Korean won)</i> | <b>Acquisition cost</b>  | <b>Accumulated depreciation</b> | <b>Book amount</b> |
| Land                               | 22,475                   | -                               | 22,475             |
| Buildings                          | 113,631                  | (33,916)                        | 79,715             |
|                                    | <u>136,106</u>           | <u>(33,916)</u>                 | <u>102,190</u>     |

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Changes in investment properties for the years ended December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i> | <b>2017</b>   |                  |                |
|------------------------------------|---------------|------------------|----------------|
|                                    | <b>Land</b>   | <b>Buildings</b> | <b>Total</b>   |
| <b>At January 1</b>                | 22,475        | 79,715           | 102,190        |
| Depreciation                       | -             | (2,511)          | (2,511)        |
| Transfer                           | 3,550         | 18,175           | 21,725         |
| Exchange differences               | (163)         | (940)            | (1,103)        |
| <b>At December 31</b>              | <b>25,862</b> | <b>94,439</b>    | <b>120,301</b> |

  

| <i>(in millions of Korean won)</i> | <b>2016</b>   |                  |                |
|------------------------------------|---------------|------------------|----------------|
|                                    | <b>Land</b>   | <b>Buildings</b> | <b>Total</b>   |
| <b>At January 1</b>                | 21,297        | 87,587           | 108,884        |
| Depreciation                       | -             | (2,500)          | (2,500)        |
| Transfer                           | 1,178         | (5,372)          | (4,194)        |
| <b>At December 31</b>              | <b>22,475</b> | <b>79,715</b>    | <b>102,190</b> |

Fair value of investment properties as at December 31, 2017, is ₩236,716 million (2016: ₩210,654 million).

Rent income from investment properties during the year ended December 31, 2017, is ₩13,227 million (2016: ₩10,649 million), and operating expenses (including repairs and maintenance) directly related to those investment properties is ₩9,324 million (2016: ₩6,242 million).

Details of investment properties provided as collateral as at December 31, 2017, are as follows:

| <i>(in millions of Korean won)</i> | <b>December 31, 2017</b> |                       |                                 |                       |                      |
|------------------------------------|--------------------------|-----------------------|---------------------------------|-----------------------|----------------------|
|                                    | <b>Book amount</b>       | <b>Secured amount</b> | <b>Related line item</b>        | <b>Related amount</b> | <b>Secured party</b> |
| Land and buildings                 | 19,874                   | 8,571                 | Borrowings<br>(Notes 21 and 32) | 8,357                 | Woori Bank           |

As at December 31, 2017, certain property, plant and equipment are provided as leasehold rights and pledged as collateral (Note 32).

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**19. Intangible Assets**

Details of intangible assets as at December 31, 2017 and 2016, are as follows:

|                                    | December 31, 2017 |              |               |            |              |              |              | Total         |
|------------------------------------|-------------------|--------------|---------------|------------|--------------|--------------|--------------|---------------|
|                                    | Goodwill          | Membership   | Development   | Industrial | Software     | Other        | Right to use |               |
|                                    |                   | rights       | costs         | property   |              | intangible   | donated      |               |
| <i>(in millions of Korean won)</i> |                   |              |               | rights     |              | assets       | assets       |               |
| Acquisition cost                   | 1,180             | 8,924        | 151,693       | 2,606      | 40,936       | 19,404       | 158,011      | 382,754       |
| Accumulated amortization           | -                 | -            | (106,696)     | (2,225)    | (34,083)     | (16,984)     | (152,764)    | (312,752)     |
| Accumulated impairments loss       | (346)             | -            | (32,749)      | (2)        | (376)        | (48)         | -            | (33,521)      |
| Government grants                  | -                 | -            | -             | -          | -            | (559)        | -            | (559)         |
| Net book amounts                   | <u>834</u>        | <u>8,924</u> | <u>12,248</u> | <u>379</u> | <u>6,477</u> | <u>1,813</u> | <u>5,247</u> | <u>35,922</u> |

|                                    | December 31, 2016 |              |               |            |              |              |              | Total         |
|------------------------------------|-------------------|--------------|---------------|------------|--------------|--------------|--------------|---------------|
|                                    | Goodwill          | Membership   | Development   | Industrial | Software     | Other        | Right to use |               |
|                                    |                   | rights       | costs         | property   |              | intangible   | donated      |               |
| <i>(in millions of Korean won)</i> |                   |              |               | rights     |              | assets       | assets       |               |
| Acquisition cost                   | 3,844             | 8,924        | 148,475       | 2,525      | 39,808       | 18,313       | 155,970      | 377,859       |
| Accumulated amortization           | -                 | -            | (103,135)     | (2,024)    | (30,538)     | (15,468)     | (149,239)    | (300,404)     |
| Accumulated impairments loss       | (3,252)           | -            | (30,905)      | (3)        | (2,263)      | (24)         | -            | (36,447)      |
| Government grants                  | -                 | -            | -             | -          | (7)          | (752)        | -            | (759)         |
| Net book amounts                   | <u>592</u>        | <u>8,924</u> | <u>14,435</u> | <u>498</u> | <u>7,000</u> | <u>2,069</u> | <u>6,731</u> | <u>40,249</u> |

Changes in intangible assets for the years ended December 31, 2017 and 2016, are as follows:

|                                    | 2017       |              |               |            |              |              |              | Total         |
|------------------------------------|------------|--------------|---------------|------------|--------------|--------------|--------------|---------------|
|                                    | Goodwill   | Membership   | Development   | Industrial | Software     | Other        | Right to use |               |
|                                    |            | rights       | costs         | property   |              | intangible   | donated      |               |
| <i>(in millions of Korean won)</i> |            |              |               | rights     |              | assets       | assets       |               |
| <b>At January 1</b>                | 592        | 8,924        | 14,435        | 498        | 7,000        | 2,069        | 6,731        | 40,249        |
| Acquisitions                       | 24         | -            | 10            | 83         | 3,128        | 1,080        | 2,041        | 6,366         |
| Increase due to                    |            |              |               |            |              |              |              |               |
| business acquisition               | 628        | -            | -             | -          | 8            | -            | -            | 636           |
| Acquisitions by internal           |            |              |               |            |              |              |              |               |
| development                        | -          | -            | 7,874         | -          | -            | -            | -            | 7,874         |
| Amortization (including            |            |              |               |            |              |              |              |               |
| government grants)                 | -          | -            | (6,089)       | (202)      | (3,658)      | (1,149)      | (3,525)      | (14,623)      |
| Impairments <sup>1</sup>           | (347)      | -            | (3,982)       | -          | (1)          | -            | -            | (4,330)       |
| Others                             | (58)       | -            | -             | -          | -            | -            | -            | (58)          |
| Government grants                  | -          | -            | -             | -          | -            | (179)        | -            | (179)         |
| Exchange differences               | (5)        | -            | -             | -          | -            | (8)          | -            | (13)          |
| <b>At December 31</b>              | <u>834</u> | <u>8,924</u> | <u>12,248</u> | <u>379</u> | <u>6,477</u> | <u>1,813</u> | <u>5,247</u> | <u>35,922</u> |

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|  | 2016       |                   |                   |                            |              |                         |                             | Total         |
|--|------------|-------------------|-------------------|----------------------------|--------------|-------------------------|-----------------------------|---------------|
|  | Goodwill   | Membership rights | Development costs | Industrial property rights | Software     | Other intangible assets | Right to use donated assets |               |
| <i>(in millions of Korean won)</i>         |            |                   |                   |                            |              |                         |                             |               |
| <b>At January 1</b>                        | 573        | 8,924             | 19,818            | 636                        | 10,300       | 1,913                   | 8,329                       | 50,493        |
| Acquisitions                               | 16         | -                 | -                 | 54                         | 2,650        | 1,241                   | 2,454                       | 6,415         |
| Acquisitions by internal development       | -          | -                 | 5,925             | -                          | -            | -                       | -                           | 5,925         |
| Amortization (including government grants) | -          | -                 | (7,931)           | (192)                      | (4,088)      | (1,087)                 | (4,052)                     | (17,350)      |
| Impairments <sup>1</sup>                   | -          | -                 | (3,377)           | -                          | (1,862)      | -                       | -                           | (5,239)       |
| Exchange differences                       | 3          | -                 | -                 | -                          | -            | 2                       | -                           | 5             |
| <b>At December 31</b>                      | <b>592</b> | <b>8,924</b>      | <b>14,435</b>     | <b>498</b>                 | <b>7,000</b> | <b>2,069</b>            | <b>6,731</b>                | <b>40,249</b> |

<sup>1</sup> The Group recognized an impairment loss on development costs and others amounting to ₩4,330 million (2016: ₩5,239 million) as the book amount exceeded its recoverable value.

Amortization for the years ended December 31, 2017 and 2016, is charged as follows:

| <i>(in millions of Korean won)</i>  | 2017          | 2016          |
|-------------------------------------|---------------|---------------|
| Cost of sales                       | 11,397        | 14,136        |
| Selling and administrative expenses | 3,226         | 3,214         |
|                                     | <b>14,623</b> | <b>17,350</b> |

*Development Costs*

Development costs considered as low business value are recognized as impairment loss of ₩3,982 million and included in 'other expense' within statements of profit or loss. Also, that development costs are belong to the media business and other business of operating segments.

a. Impairment loss of development cost as at December 31, 2017, is as follows:

*(in millions of Korean won)*

| Related account   | Separate asset   | Carrying amount | Impairment loss | Recoverable amount valuation method |
|-------------------|--|-----------------|-----------------|-------------------------------------|
| Development costs | Study material for overseas sales such as Eye Level English: 8 cases <sup>1</sup>    | 3,174           | 3,174           | Value in use                        |
|                   | Development costs for a complete series such as fairy tale: 3 cases <sup>1</sup>     | 770             | 770             | Value in use                        |
|                   | 3rd and 4th grade textbook development costs of the year 2009 : 2 cases <sup>2</sup> | 38              | 38              | Value in use                        |
|                   |  | <b>3,982</b>    | <b>3,982</b>    |                                     |

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<sup>1</sup> As the Group considered it to have low business value and the recoverable amount being less than the book amount of development cost, according to the result of an impairment test, the Group impaired the entire amount.

<sup>2</sup> Related book value is entirely impaired as economic benefits are estimated to be none due to expiration of curriculum as of Jan. 1st, 2018.

b. Estimating recoverable amount

The Group estimated recoverable amount of development costs based on value-in-use calculation as the assets cannot be reliably measured at fair value.

The value-in-use calculations use cash flow projections covering a four-year period based on historical operating performance and financial budgets approved by management.

Discount rate used for value-in-use calculation is 6.93% and the rate is weight average cost of capital reflected specific risks relating to the asset.

c. Line items including impairment loss in the statement of profit or loss are other expense of ₩3,982 million (2016: ₩3,377 million).

d. List of major assets for development costs

Study material development costs out of the development costs consist of in-progress development costs of ₩272 million and completed development costs of ₩7,369 million, and the weighted average residual amortization period of development costs that is being amortized is 2.8 years.

Complete series of publication development costs consist of in-progress development costs of ₩155 million and completed development cost of ₩1,140 million, and the weighted average residual amortization period of development costs that is being amortized is 2.2 years.

Textbook development costs consist of in-progress development cost of ₩2,673 million and completed development costs of ₩493 million, and the weighted average residual amortization period of development costs that is being amortized is 1.1 years.

Development costs for other contents include ₩146 million of completed development costs and its weighted average residual amortization period is 1.1 years.

e. Total research and development costs recognized as expenses for the year ended December 2017, are as follows:



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| <i>(in millions of Korean won)</i>  | <u>2017</u> | <u>2016</u> |
|-------------------------------------|-------------|-------------|
| Cost of sales                       | 566         | 683         |
| Selling and administrative expenses | 23          | 23          |
|                                     | <u>589</u>  | <u>706</u>  |

Goodwill is allocated among the Group's cash-generating units (CGUs) according to operating segments. Details of goodwill by operating segments as at December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i> | <u>December 31, 2017</u> | <u>December 31, 2016</u> |
|------------------------------------|--------------------------|--------------------------|
| CHAIHONG division                  | 480                      | 480                      |
| Daekyo Edupia Co., Ltd.            | 354                      | -                        |
| P.T Daekyo Indonesia               | -                        | 61                       |
| Daekyo Enopi Singapore PTE Ltd.    | -                        | 51                       |
|                                    | <u>834</u>               | <u>592</u>               |

The recoverable amounts of cash-generating units have been determined based on value-in-use calculations. These calculations use pre-tax cash flow projections based on financial budgets approved by management covering four years.

Management determined the estimated cash flow based on past performance and its expectations of market development. The discount rates used are pre-tax and reflect risks relating to the relevant operating segments. Discount rates used for value-in-use calculations of the CHAIHONG division and others is 6.93%.

## 20. Other Payables

Details of other payables as at December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i> | <u>December 31, 2017</u> | <u>December 31, 2016</u> |
|------------------------------------|--------------------------|--------------------------|
| <b>Current</b>                     |                          |                          |
| Non-trade payables                 | 19,541                   | 24,606                   |
| Accrued expenses                   | 38,669                   | 41,371                   |
| Short-term deposits received       | 447                      | 391                      |
| Leasehold deposits received        | 11,124                   | 10,662                   |
|                                    | <u>69,781</u>            | <u>77,030</u>            |
| <b>Non-current</b>                 |                          |                          |
| Leasehold deposits received        | 10,952                   | 9,586                    |
|                                    | <u>10,952</u>            | <u>9,586</u>             |
|                                    | <u>80,733</u>            | <u>86,616</u>            |

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**21. Borrowings**

Details of borrowings as at December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i> | <b>Details</b>                | <b>Latest maturity date</b> | <b>Annual interest rate (%) at Dec 31, 2017</b> | <b>December 31, 2017</b> | <b>December 31, 2016</b> |
|------------------------------------|-------------------------------|-----------------------------|---|--------------------------|--------------------------|
| <b>Current</b>                     |                               |                             |   |                          |                          |
| Daekyo Holdings Co., Ltd.          | Borrowings from related party | 2018-12-31                  | 3.60  | 7,170                    | 5,600                    |
| Woori Bank <sup>1</sup>            | Facility loans                | 2018-12-31                  | 3.25  | 178                      | 194                      |
| Shinhan Bank <sup>2</sup>          | Facility loans                | 2018-03-22                  | Libor 3M + 120BP                                | 8,496                    | 4,834                    |
| Shinhan Bank                       | Facility loans                | 2018-03-22                  | Libor 3M + 120BP                                | 4,071                    | 8,133                    |
| Hong Leong Bank                    | General loans                 | 2018-03-01                  | 2.69  | 1                        | -                        |
| Public Bank Berhad                 | General loans                 | 2018-12-31                  | 3.33  | 5                        | -                        |
| Maybank Islamic Berhad             | General loans                 | 2018-12-31                  | 2.45  | 4                        | -                        |
| Hyundai Motors Finance             | General loans                 | 2018-12-31                  | 3.97  | 3                        | 3                        |
| Hitachi Capital Singapore Pte      | General loans                 | 2018-12-31                  | 15.00   | 2                        | 3                        |
| KIA Motors Finance                 | General loans                 | -                           | -   | -                        | 3                        |
| KIA Motors Finance                 | General loans                 | -                           | -   | -                        | 4                        |
|                                    |                               |                             |   | <u>19,930</u>            | <u>18,774</u>            |
| <b>Non-Current</b>                 |                               |                             |   |                          |                          |
| Woori Bank <sup>1</sup>            | Facility loans                | 2021-08-01                  | 3.25  | 8,179                    | 9,410                    |
| Hong Leong Bank                    | General loans                 | -                           | -   | -                        | 4                        |
| Public Bank Berhad                 | General loans                 | 2019-07-19                  | 3.33  | 3                        | 13                       |
| Maybank Islamic Berhad             | General loans                 | 2020-05-25                  | 2.45  | 4                        | 12                       |
| Hyundai Motors Finance             | General loans                 | 2021-09-30                  | 3.97  | 9                        | 14                       |
| Hitachi Capital Singapore Pte.     | General loans                 | 2021-02-28                  | 15.00   | 6                        | 7                        |
|                                    |                               |                             |   | <u>8,201</u>             | <u>9,460</u>             |
|                                    |                               |                             |   | <u>28,131</u>            | <u>28,234</u>            |

<sup>1</sup> Certain property, plant and equipment and investment properties are pledged as collateral for these borrowings (Note 17, 18 and 32).

<sup>2</sup> Payment guarantees are provided from Daekyo Holdings Co., Ltd. for these borrowings (Note 32).

Changes in borrowings for the years ended December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i>     | <b>2017</b>   | <b>2016</b>   |
|--|---------------|---------------|
| <b>At January 1</b>                    | 28,234        | 28,304        |
| Addition                               | 6,302         | 23,717        |
| Repayment                              | (3,792)       | (24,457)      |
| Effect of changes in currency exchange | (2,613)       | 670           |
| <b>At December 31</b>                  | <u>28,131</u> | <u>28,234</u> |

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**22. Provisions**

Changes in provisions for sales return for the years ended December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i> | <u>2017</u>  | <u>2016</u>  |
|------------------------------------|--------------|--------------|
| <b>At January 1</b>                | 568          | 659          |
| Addition                           | 366          | 63           |
| Utilization                        | <u>(452)</u> | <u>(154)</u> |
| <b>At December 31</b>              | <u>482</u>   | <u>568</u>   |

**23. Other Liabilities**

Details of other liabilities as at December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i> | <u>December 31, 2017</u> | <u>December 31, 2016</u> |
|------------------------------------|--------------------------|--------------------------|
| <b>Current</b>                     |                          |                          |
| Withholding                        | 4,683                    | 4,791                    |
| Advances from customer             | 39,960                   | 41,225                   |
| Unearned income                    | <u>1,521</u>             | <u>1,113</u>             |
|                                    | <u>46,164</u>            | <u>47,129</u>            |

**24. Post-employment Benefit**

**24.1 Defined Benefit Plan**

Details of retirement benefit obligations recognized on the consolidated statements of financial position as at December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i>                    | <u>December 31, 2017</u> | <u>December 31, 2016</u> |
|---|--------------------------|--------------------------|
| Present value of funded defined benefit obligations   | 60,123                   | 58,859                   |
| Present value of unfunded defined benefit obligations | 661                      | 778                      |
| Fair value of plan assets                             | <u>(51,988)</u>          | <u>(54,356)</u>          |
| Net defined benefit liability                         | <u>8,796</u>             | <u>5,281</u>             |

The amounts recognized in the consolidated statements of profit or loss for the years ended December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i> | <u>2017</u>  | <u>2016</u>  |
|------------------------------------|--------------|--------------|
| Current service cost               | 8,561        | 8,275        |
| Net interest cost                  | <u>67</u>    | <u>(22)</u>  |
| <b>Total expenses</b>              | <u>8,628</u> | <u>8,253</u> |

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Cumulative actuarial losses recognized in the consolidated statements of comprehensive income as at December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i>                        | <u>December 31, 2017</u> | <u>December 31, 2016</u> |
|---|--------------------------|--------------------------|
| Remeasurement of net defined benefit liability before tax | (11,308)                 | (12,163)                 |
| Tax effect  | 2,375                    | 2,666                    |
| Remeasurement of net defined benefit liability after tax  | <u>(8,933)</u>           | <u>(9,497)</u>           |

Total expenses for the years ended December 31, 2017 and 2016, are charged as follows:

| <i>(in millions of Korean won)</i>  | <u>2017</u>  | <u>2016</u>  |
|-------------------------------------|--------------|--------------|
| Cost of sales                       | 6,870        | 6,586        |
| Selling and administrative expenses | 1,758        | 1,667        |
|                                     | <u>8,628</u> | <u>8,253</u> |

Changes in the carrying amount of defined benefit liability for the years ended December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i>                                   | <u>2017</u>   | <u>2016</u>   |
|--|---------------|---------------|
| <b>At January 1</b>  | 59,637        | 53,731        |
| Current service cost   | 8,561         | 8,275         |
| Interest expense   | 1,297         | 1,169         |
| Remeasurements:  |               |               |
| - Actuarial gains and losses from changes in financial assumptions   | (1,902)       | 2,677         |
| - Actuarial gains and losses from experience adjustments             | 525           | 528           |
| - Actuarial gains and losses from changes in demographic assumptions | 52            | -             |
| Benefit payments   | (7,386)       | (6,743)       |
| <b>At December 31</b>  | <u>60,784</u> | <u>59,637</u> |

Changes in the fair value of plan assets for the years ended December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i> | <u>2017</u>   | <u>2016</u>   |
|------------------------------------|---------------|---------------|
| <b>At January 1</b>                | 54,356        | 52,731        |
| Expected return on plan assets     | 1,230         | 1,191         |
| Remeasurements:                    |               |               |
| - Return on plan assets            | (470)         | (129)         |
| Contributions of employers         | 3,560         | 6,318         |
| Benefit payments                   | (6,688)       | (5,755)       |
| <b>At December 31</b>              | <u>51,988</u> | <u>54,356</u> |

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The principal actuarial assumptions to calculate defined benefit liability as at December 31, 2017 and 2016, are as follows:

| (%)                     | <u>December 31, 2017</u> | <u>December 31, 2016</u> |
|-------------------------|--------------------------|--------------------------|
| Discount rate           | 3.00~3.16                | 2.00~2.67                |
| Future salary increases | 3.00~4.27                | 2.00~4.14                |

Plan assets as at December 31, 2017 and 2016, consist of:

| <i>(in millions of Korean won)</i>  | <u>December 31, 2017</u> | <u>December 31, 2016</u> |
|---|--------------------------|--------------------------|
| Time deposits   | 23                       | 5,198                    |
| Equity-linked Securities  | 9,580                    | 18,282                   |
| Derivative linked securities<br>(Principal and interest assured) and others | <u>42,385</u>            | <u>30,876</u>            |
|   | <u>51,988</u>            | <u>54,356</u>            |

Expected future contribution of defined benefit plans by employer is best estimated to be ₩3,600 million after the reporting period.

The sensitivity of the defined benefit obligations to changes in the principal actuarial assumptions is as follows:

|                    | <u>Changes in principal assumption</u> | <u>Effect on defined benefit obligation</u> |
|--------------------|--|---|
| Discount rate      | 0.5% increase/decrease                 | 2.76% decrease / 2.89% increase             |
| Salary growth rate | 0.5% increase/decrease                 | 2.93% increase / 2.82% decrease             |

A decrease in corporate bond yields will increase plan liabilities, although this will be partially offset by an increase in the value of the plans' bond holdings.

The above sensitivity analyses are based on a change in an assumption while holding all other assumptions constant. In practice, this is unlikely to occur, and changes in some of the assumptions may be correlated. The sensitivity of the defined benefit obligation to changes in principal actuarial assumptions is calculated using the projected unit credit method, the same method applied when calculating the defined benefit obligations recognized on the statement of financial position.

The methods and types of assumptions used in preparing the sensitivity analysis were not changed compared to the previous period.

The Group reviews the funding level on an annual basis and has a policy to eliminate deficit in the fund.

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Expected maturity analysis of undiscounted pension benefits as at December 31, 2017, is as follows:

| <i>(in millions of Korean won)</i> | <b>Less than<br/>1 year</b> | <b>Between 1<br/>and 2 years</b> | <b>Between 2<br/>and 5 years</b> | <b>Between 5<br/>and 10 years</b> | <b>More than<br/>10 years</b> | <b>Total</b> |
|------------------------------------|-----------------------------|----------------------------------|----------------------------------|-----------------------------------|-------------------------------|--------------|
| Pension benefits                   | 8,929                       | 11,691                           | 26,162                           | 37,045                            | 64,474                        | 148,301      |

The weighted average duration of the defined benefit obligations is 6.1 years.

**24.2 Defined Contribution Plan**

Recognized expense related to the defined contribution plan for the year ended December 31, 2017, is ₩781 million (2016: ₩611 million).

**25. Deferred Income Tax**

The analysis of deferred tax assets and deferred tax liabilities as at December 31, 2017 and 2016, is as follows:

| <i>(in millions of Korean won)</i>                               | <b>December 31, 2017</b> | <b>December 31, 2016</b> |
|--|--------------------------|--------------------------|
| Deferred tax assets  |                          |                          |
| Deferred tax asset to be recovered within 12 months              | 12,703                   | 13,152                   |
| Deferred tax asset to be recovered after more than 12 months     | 18,418                   | 17,582                   |
| <b>Deferred tax assets before offsetting</b>                     | <b>31,121</b>            | <b>30,734</b>            |
| Deferred tax liabilities   |                          |                          |
| Deferred tax liability to be recovered within 12 months          | 1,072                    | 468                      |
| Deferred tax liability to be recovered after more than 12 months | 30,546                   | 30,386                   |
| <b>Deferred tax liabilities before offsetting</b>                | <b>31,618</b>            | <b>30,854</b>            |
| <b>Deferred tax liabilities, net</b>                             | <b>(497)</b>             | <b>(120)</b>             |

Changes in the deferred tax assets and liabilities for the years ended December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i>               | <b>2017</b>  | <b>2016</b>  |
|--|--------------|--------------|
| <b>At January 1</b>                              | (120)        | 819          |
| Charged to the statement of profit or loss       | 2,863        | 1,705        |
| Charged (credited) to other comprehensive income | (3,240)      | (2,644)      |
| <b>At December 31</b>                            | <b>(497)</b> | <b>(120)</b> |

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Changes in deferred tax assets and liabilities for the years ended December 31, 2017 and 2016, without offsetting balances within the same tax jurisdiction, are as follows:

(in millions of Korean won)

|  | <b>2017</b>                  |                            |  |                           |
|--|------------------------------|----------------------------|--|---------------------------|
|  | <b>Beginning<br/>balance</b> | <b>Increase (decrease)</b> |  | <b>Ending<br/>balance</b> |
|  |                              | <b>Profit or loss</b>      | <b>Other<br/>comprehensive<br/>income (loss)</b> |                           |
| <b>Deferred tax assets</b>                               |                              |                            |  |                           |
| Net defined benefit liability                            | 12,007                       | 345                        | -  | 12,352                    |
| Allowance for doubtful accounts                          | 1,555                        | 972                        | -  | 2,527                     |
| Accrued expenses   | 2,034                        | (330)                      | -  | 1,704                     |
| Loss on valuation of available-for-sale financial assets | 8,417                        | (1,306)                    | (368)  | 6,743                     |
| Remeasurement of net defined benefit liability           | 2,615                        | -                          | (290)  | 2,325                     |
| Impairment loss on intangible assets                     | 1,074                        | 70                         | -  | 1,144                     |
| Amortization   | 459                          | -                          | -  | 459                       |
| Leasehold deposits provided                              | 287                          | (64)                       | -  | 223                       |
| Depreciation   | 1,024                        | (288)                      | -  | 736                       |
| Other  | 1,262                        | 1,646                      | -  | 2,908                     |
|  | <u>30,734</u>                | <u>1,045</u>               | <u>(658)</u>                                     | <u>31,121</u>             |
| <b>Deferred tax liabilities</b>                          |                              |                            |  |                           |
| Available-for-sale financial assets                      | (866)                        | 128                        | -  | (738)                     |
| Plan assets  | (11,300)                     | (852)                      | -  | (12,152)                  |
| Gain on valuation of available-for-sale financial assets | (17,012)                     | 3,003                      | (2,513)  | (16,522)                  |
| Other  | (1,676)                      | (461)                      | (69)   | (2,206)                   |
|  | <u>(30,854)</u>              | <u>1,818</u>               | <u>(2,582)</u>                                   | <u>(31,618)</u>           |
|  | <u>(120)</u>                 | <u>2,863</u>               | <u>(3,240)</u>                                   | <u>(497)</u>              |

(in millions of Korean won)

|                                 | <b>2016</b>                  |                            |  |                           |
|---------------------------------|------------------------------|----------------------------|--|---------------------------|
|                                 | <b>Beginning<br/>balance</b> | <b>Increase (decrease)</b> |  | <b>Ending<br/>balance</b> |
|                                 |                              | <b>Profit or loss</b>      | <b>Other<br/>comprehensive<br/>income (loss)</b> |                           |
| <b>Deferred tax assets</b>      |                              |                            |  |                           |
| Net defined benefit liability   | 10,464                       | 1,543                      | -  | 12,007                    |
| Allowance for doubtful accounts | 1,403                        | 152                        | -  | 1,555                     |
| Accrued expenses                | 1,766                        | 268                        | -  | 2,034                     |





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|  |          |       |         |
|--|----------|-------|---------|
| for-sale financial assets                      |          |       |         |
| Remeasurement of net defined benefit liability | (12,163) | 2,666 | (9,497) |
| Currency translation differences               | (460)    | -     | (460)   |
| Other comprehensive income of associates       | 173      | -     | 173     |

Details of temporary differences that are unrecognized as deferred tax assets as at December 31, 2017 and 2016, are as follows:

|  |                          |                          |
|--|--------------------------|--------------------------|
| <i>(in millions of Korean won)</i>     | <u>December 31, 2017</u> | <u>December 31, 2016</u> |
| Investments in subsidiaries and others | 85,752                   | 82,154                   |

**26. Share Capital**

The Company is authorized to issue 1,500 million shares with a par value per share of ₩500. As at December 31, 2017, 84,702,850 shares (₩42,352 million) of ordinary share and 19,426,990 shares (₩9,713 million) of preferred share are issued outstanding. There are no movements in ordinary and preferred shares during 2017 and 2016.

When the dividend rate of ordinary share exceeds the dividend rate of preferred share (over 9% of the par value according to the resolution of the Board of Directors), the preferred share has the right to be entitled to receive dividends at the same rate with the ordinary share for the excess rate.

**27. Reserves**

Details of reserves as at December 31, 2017 and 2016, are as follows:

|                                    |                          |                          |
|------------------------------------|--------------------------|--------------------------|
| <i>(in millions of Korean won)</i> | <u>December 31, 2017</u> | <u>December 31, 2016</u> |
| Share premium                      | 46,797                   | 46,797                   |
| Other reserves                     | 25,923                   | 25,718                   |
|                                    | <u>72,720</u>            | <u>72,515</u>            |

**28. Other Components of Equity**

Details of other components of equity as at December 31, 2017 and 2016, are as follows:

|                                    |                          |                          |
|------------------------------------|--------------------------|--------------------------|
| <i>(in millions of Korean won)</i> | <u>December 31, 2017</u> | <u>December 31, 2016</u> |
| Stock options                      | 1,589                    | 901                      |
| Treasury shares                    | (81,450)                 | (75,820)                 |
|                                    | <u>(79,861)</u>          | <u>(74,919)</u>          |

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**29. Share-Based Payments**

As at December 31, 2017, the summary of stock options to be granted to employees is as follows:

|                                | <u>Details</u>  |
|--------------------------------|---|
| Date of the first announcement | February 9, 2017  |
| Grant method                   | Issuance of shares  |
| Exercise period                | April 16, 2018 ~ April 20, 2018 (scheduled)   |
| Vesting conditions             | Options are conditional on the employee completing service between January 1, 2017 and December 31, 2017 and achieving performance goals. |
| Exercise price <sup>1</sup>    | Standard price of preferred share × (1- discount rate)  |
| Shares to be granted           | 347,518 shares of preferred share   |

<sup>1</sup> The standard price of preferred share is calculated as mathematical average of closing price on reference date, one month average closing price and one week average closing price rolled-back from the reference date, December 31, 2017. The discount rates are 50% and 100%.

The summary of stock options granted to employees for the year ended December 31, 2017, is as follows:

|                                   | <u>Details</u>   |
|-----------------------------------|--|
| Date of the first announcement    | August 18, 2016  |
| Grant method                      | Issuance of shares   |
| Exercise period                   | February 13, 2017 ~ February 17, 2017  |
| Vesting conditions                | Options are conditional on the employee completing service between July 1, 2016 and December 31, 2016 and achieving performance goals. |
| Exercise price <sup>1</sup>       | Standard price of ordinary share × (1- discount rate)  |
| Shares to be granted <sup>2</sup> | 168,612 shares of ordinary share   |

<sup>1</sup> The standard price of ordinary share is ₩8,200 and the discount rates are 30%, 50% and 100%.

<sup>2</sup> Shares to be issued can be replaced with preferred share in equivalent value, depending on the employees' choice. Standard price of preferred share for replacement was ₩5,180. Vested stock options of 148,981 of ordinary share and 31,076 of preferred share were exercised and unexercised options have been lapsed.

The fair value of stock appreciation rights determined was ₩1,589 million (2016: ₩901 million). The significant inputs into the model were the weighted average share price of ₩5,054 (2016: ₩8,198), exercise price of nil (2016: ₩3,125), volatility of 9.8% (2016: 19.3%), dividend yield of 4.9% (2016: 2.5%), an expected option life of 1.20 years (2016: 0.51 years) and an annual risk-free interest rate of 1.87% (2016: 1.57%).

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Changes in stock options for the years ended December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i> | <u>2017</u>  | <u>2016</u>    |
|------------------------------------|--------------|----------------|
| <b>At January 1</b>                | 901          | 886            |
| Compensation cost                  | 1,589        | 1,619          |
| Exercise                           | <u>(901)</u> | <u>(1,604)</u> |
| <b>At December 31</b>              | <u>1,589</u> | <u>901</u>     |

**30. Treasury Shares**

Changes in treasury shares for the years ended December 31, 2017 and 2016, are as follows:

| <i>(shares, in millions of Korean won)</i> | <u>2017</u>           |                        |                |
|--|-----------------------|------------------------|----------------|
|  | <u>Ordinary share</u> | <u>Preferred share</u> | <u>Amounts</u> |
| <b>At January 1</b>                        | 9,560,180             | 4,443,759              | 75,820         |
| Acquisition                                | 676,110               | 276,104                | 6,810          |
| Disposal                                   | <u>(148,981)</u>      | <u>(82,160)</u>        | <u>(1,180)</u> |
| <b>At December 31</b>                      | <u>10,087,309</u>     | <u>4,637,703</u>       | <u>81,450</u>  |

| <i>(shares, in millions of Korean won)</i> | <u>2016</u>           |                        |                |
|--|-----------------------|------------------------|----------------|
|  | <u>Ordinary share</u> | <u>Preferred share</u> | <u>Amounts</u> |
| <b>At January 1</b>                        | 9,517,598             | 4,388,392              | 74,164         |
| Acquisition                                | 420,267               | 125,822                | 4,188          |
| Disposal                                   | <u>(377,685)</u>      | <u>(70,455)</u>        | <u>(2,532)</u> |
| <b>At December 31</b>                      | <u>9,560,180</u>      | <u>4,443,759</u>       | <u>75,820</u>  |

**31. Retained Earnings**

Retained earnings as at December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i> | <u>December 31, 2017</u> | <u>December 31, 2016</u> |
|------------------------------------|--------------------------|--------------------------|
| Legal reserve <sup>1</sup>         | 32,300                   | 32,300                   |
| Discretionary reserve              | 494,586                  | 477,319                  |
| Unappropriated retained earnings   | <u>45,327</u>            | <u>42,013</u>            |
|                                    | <u>572,213</u>           | <u>551,632</u>           |

<sup>1</sup> The Commercial Code of the Republic of Korea requires the Company to appropriate, as a legal reserve, an amount equal to a minimum of 10% of cash dividends paid until such reserve equals 50% of its issued share capital. As at December 31, 2017, the Company's reserve equals 50% of the capital, therefore no additional reserve is needed. The reserve is not available for the payment of cash dividends, but may be transferred to share capital or used to reduce accumulated deficit, if any, with the ratification of the Company's majority shareholders.

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Changes in retained earnings for the years ended December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i>                       | <b>2017</b>     | <b>2016</b>     |
|--|-----------------|-----------------|
| <b>At January 1</b>                                      | 551,632         | 533,460         |
| Profit for the year attributable to owners of the Parent |                 |                 |
| Company  | 41,741          | 42,558          |
| Remeasurement of net defined benefit liability           | 566             | (2,578)         |
| Dividend paid  | <u>(21,726)</u> | <u>(21,808)</u> |
| <b>At December 31</b>                                    | <u>572,213</u>  | <u>551,632</u>  |

**32. Contingencies and Commitments**

As at December 31, 2017, the Group has credit agreements with Woori Bank up to ₩7,000 million in relation to B2B transactions and loan agreements with related party, Daekyo Holdings Co., Ltd. up to ₩9,900 million.

As at December 31, 2017, the Group has borrowing agreements in foreign currencies with Shinhan Bank up to USD 12,230 thousand.

In relation to using the copyright of Noonoppi Math, the Group pays Korea contents bank a certain percentage of sales from the use. Payments of the copyright for the year ended December 31, 2017, are ₩805 million.

As at December 31, 2017, certain property, plant and equipment and investment properties are provided as collateral for borrowings in foreign currencies from Woori Bank (Notes 17, 18 and 21).

As at December 31, 2017, the Group provides financial deposits as collaterals amounting to ₩1,315 million for certain lessees in connection with the lessees' guarantee deposits. Seoul Guarantee Insurance Co., Ltd. has provided guarantees up to ₩3,940 million for the Company's execution of contracts.

The Group entered into contracts with free-lance instructors to manage its educational service members. In accordance with the contracts, the Group pays the instructors a certain percentage of monthly cash collections from its educational service members. Expenses in relation to these contracts amounted to ₩357,004 million (2016: ₩368,383 million) in 2017.

As at December 31, 2017, the Group is either a plaintiff in 4 legal case or a defendant in 8 legal cases (total amount of litigation: ₩4,476 million). The outcome of the cases and effect on the financial statements could not be ascertained at the end of the reporting period.

As at December 31, 2017, the Group has agreements with KEB Hana Bank up to USD 2,804 thousand for derivatives transactions.

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Assets pledged as margin for futures trading as at December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i>      | <u>December 31, 2017</u> | <u>December 31, 2016</u> |
|---|--------------------------|--------------------------|
| Available-for-sale financial assets     |                          |                          |
| NH Investment & Securities Co., Ltd.    | 415                      | 335                      |
| Korea Investment & Securities Co., Ltd. | 415                      | 333                      |
| Financial deposits                      |                          |                          |
| NH Investment & Securities Co., Ltd.    | -                        | 81                       |
|   | <u>830</u>               | <u>749</u>               |

As at December 31, 2017, the Group has been provided with payment guarantees of USD 7,930 thousands from the ultimate Parent Company, Daekyo Holdings Co., Ltd., in relation to certain borrowings of EYE LEVEL HUB LLC (Note 21). The ultimate Parent Company, Daekyo Holdings Co., Ltd., provides financial support for Daekyo Edupia Co., Ltd., a subsidiary.

As at December 31, 2017, the Group's leasehold deposits are provided as collateral for borrowings from Daekyo Holdings Co., Ltd.

As at December 31, 2017, the Company has entered into a lease agreement with Mirae Asset Daewoo Co., Ltd. and Korea Investment & Securities Co., Ltd. In relation to the agreement, the Company provides 7,904 shares and 1,000 shares of Shinhan Financial Holding Co., Ltd., respectively.

As at December 31, 2017, certain property, plant and equipment are provided as leasehold rights for ₩ 5,650 million and pledged as collateral for ₩ 6,732 million.

**33. Sales**

Details of sales for the years ended December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i> | <u>2017</u>    | <u>2016</u>    |
|------------------------------------|----------------|----------------|
| Sales of goods                     | 726,807        | 736,726        |
| Rendering of services              | 65,806         | 67,813         |
| Royalty income                     | 19,590         | 16,178         |
|                                    | <u>812,203</u> | <u>820,717</u> |

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**34. Selling and Administrative Expenses**

Details of selling and administrative expenses for the years ended December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i> | <u>2017</u>    | <u>2016</u>    |
|------------------------------------|----------------|----------------|
| Wages and salaries                 | 27,053         | 27,283         |
| Post-employment benefits           | 1,758          | 1,667          |
| Welfare expense                    | 5,460          | 5,365          |
| Depreciation                       | 3,493          | 6,946          |
| Advertising expense                | 31,735         | 31,102         |
| Commission expense                 | 24,872         | 26,524         |
| Amortization                       | 3,226          | 3,214          |
| Taxes and dues                     | 3,028          | 3,485          |
| Transportation expense             | 2,355          | 2,520          |
| Printing expense                   | 182            | 173            |
| Rental expense                     | 3,980          | 5,327          |
| Other                              | 8,237          | 9,551          |
|                                    | <u>115,379</u> | <u>123,157</u> |

**35. Expenses by Nature**

Expenses that are recorded by nature as cost of sales and selling and administrative expenses in the statement of profit or loss for the years ended December 31, 2017 and 2016, consist of:

| <i>(in millions of Korean won)</i>        | <u>2017</u>    | <u>2016</u>    |
|---|----------------|----------------|
| Changes in inventories                    | 4,038          | 2,071          |
| Purchase of raw materials and merchandise | 41,117         | 45,801         |
| Depreciation, amortization                | 33,991         | 35,089         |
| Employee benefit expenses                 | 154,171        | 153,549        |
| Commission expenses                       | 427,381        | 436,343        |
| Rental expenses                           | 37,477         | 36,846         |
| Advertising expenses                      | 31,813         | 31,102         |
| Other expenses                            | 36,730         | 37,070         |
|   | <u>766,718</u> | <u>777,871</u> |

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**36. Other Income**

Other income for the years ended December 31, 2017 and 2016, consists of:

| <i>(in millions of Korean won)</i>   | <u>2017</u>   | <u>2016</u>   |
|--|---------------|---------------|
| Interest income (lease)  | 1,149         | 1,310         |
| Dividend income  | 3,876         | 3,642         |
| Gain on disposal of financial assets at fair value through profit or loss  | 1,490         | 2,575         |
| Gain on valuation of financial assets at fair value through profit or loss | 624           | 1,137         |
| Gain on disposal of available-for-sale financial assets                    | 16,989        | 18,454        |
| Gain on disposal of non-current assets held for sale                       | 1,949         | 132           |
| Gain on valuation of derivatives   | 666           | -             |
| Gain on transaction of derivatives   | 1,179         | 882           |
| Other  | 1,789         | 1,421         |
|  | <u>29,711</u> | <u>29,553</u> |

**37. Other Expenses**

Other expenses for the years ended December 31, 2017 and 2016, consist of:

| <i>(in millions of Korean won)</i>   | <u>2017</u>   | <u>2016</u>   |
|--|---------------|---------------|
| Interest expense (lease)   | 408           | 415           |
| Loss on foreign currency transaction                                       | 328           | 290           |
| Loss on foreign currency translation                                       | 1,471         | 63            |
| Donations  | 1,715         | 4,708         |
| Other commission expenses  | 2,099         | 2,216         |
| Loss on disposal of financial assets at fair value through profit or loss  | 415           | 194           |
| Loss on valuation of financial assets at fair value through profit or loss | 2,852         | 563           |
| Impairment loss on intangible assets                                       | 4,330         | 5,239         |
| Impairment loss on available-for-sale financial assets                     | 3,137         | 1,655         |
| Loss on disposal of available-for-sale financial assets                    | 2,110         | 2,617         |
| Loss on disposal of non-current assets held for sale                       | 676           | -             |
| Loss on valuation of derivatives   | 194           | 1,114         |
| Loss on transaction of derivatives   | 566           | 440           |
| Other  | 1,509         | 928           |
|  | <u>21,810</u> | <u>20,442</u> |

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**38. Finance Income**

Finance income for the years ended December 31, 2017 and 2016, is as follows:

| <i>(in millions of Korean won)</i>   | <u>2017</u>  | <u>2016</u>  |
|--------------------------------------|--------------|--------------|
| Interest Income                      | 1,938        | 1,721        |
| Gain on foreign currency translation | 80           | 209          |
|                                      | <u>2,018</u> | <u>1,930</u> |

**39. Finance Costs**

Finance costs for the years ended December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i>   | <u>2017</u>  | <u>2016</u>  |
|--------------------------------------|--------------|--------------|
| Interest expenses                    | 1,034        | 963          |
| Loss on foreign currency translation | 501          | 152          |
| Loss on foreign currency transaction | -            | 33           |
|                                      | <u>1,535</u> | <u>1,148</u> |

**40. Income Tax Expense**

Income tax expense for the years ended December 31, 2017 and 2016, consists of:

| <i>(in millions of Korean won)</i>                  | <u>2017</u>   | <u>2016</u>   |
|---|---------------|---------------|
| Current tax on profit for the year                  | 15,706        | 13,889        |
| Changes in total deferred tax                       | 378           | 939           |
| Deferred tax charged or credited directly to equity | (3,240)       | (2,644)       |
| Difference of changes in currency exchange          | -             | (370)         |
| Income tax expense                                  | <u>12,844</u> | <u>11,814</u> |

The tax on the Group's profit before tax differs from the theoretical amount that would arise using the weighted average tax rate applicable to profits of the consolidated entities as follows:

| <i>(in millions of Korean won)</i>   | <u>2017</u>   | <u>2016</u>   |
|--|---------------|---------------|
| Profit before tax  | 54,463        | 53,604        |
| Tax calculated at domestic tax rates applicable to profits in the respective countries | 12,623        | 12,368        |
| Tax adjustments:   |               |               |
| Income not subject to tax / expenses not deductible for tax purposes                   | 462           | (605)         |
| Effects of unrecognized deferred income tax  | 287           | 1,400         |
| Adjustments in respect of prior years  | (604)         | (1,687)       |
| Others   | 76            | 338           |
| Income tax expense   | <u>12,844</u> | <u>11,814</u> |
| Effective tax rate (Income tax over profit before tax)                                 | <u>23.58%</u> | <u>22.04%</u> |



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**41. Earnings per Share**

Basic earnings per share is calculated by dividing the profit attributable to shareholders of the Group by the weighted average number of shares in issue excluding shares purchased by the Group and held as treasury shares. Preferred shares have rights to participate in the profits of the Group. These participation rights have been considered in presenting the EPS for ordinary shares and preferred shares.

Basic earnings per ordinary share for the years ended December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i>  | <u>2017</u> | <u>2016</u> |
|---|-------------|-------------|
| Profit attributable to ordinary shares <sup>1</sup>                               | 34,835      | 35,476      |
| Weighted average number of ordinary shares outstanding <sup>2</sup> (Unit: share) | 74,826,527  | 75,231,636  |
| Basic earnings per share (in won)   |             |             |
| Basic earnings per ordinary share   | 466         | 472         |

Basic earnings per preferred share for the years ended December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i>   | <u>2017</u> | <u>2016</u> |
|--|-------------|-------------|
| Profit attributable to preferred shares <sup>1</sup>                               | 6,906       | 7,082       |
| Weighted average number of preferred shares outstanding <sup>2</sup> (Unit: share) | 14,840,587  | 15,033,931  |
| Basic earnings per share (in won)  |             |             |
| Basic earnings per preferred share   | 465         | 471         |

<sup>1</sup> Profit attributable to ordinary and preferred shares is as follows:

| <i>(in millions of Korean won)</i>                       | <u>2017</u> | <u>2016</u> |
|--|-------------|-------------|
| <b>Profit attributable to equity holders</b>             |             |             |
| <b>of the Parent Company (A)</b>                         | 41,741      | 42,558      |
| Ordinary shares dividends (B)                            | 17,908      | 18,034      |
| Preferred shares dividends (C)                           | 3,697       | 3,746       |
| <b>Undistributed earnings (D=A-B-C)</b>                  | 20,136      | 20,778      |
| Undistributed earnings available for ordinary shares (E) | 16,927      | 17,442      |
| Undistributed earnings available for preferred shares(F) | 3,209       | 3,336       |
| <b>Profit attributable to ordinary shares (G=B+E)</b>    | 34,835      | 35,476      |
| <b>Profit attributable to preferred shares (H=C+F)</b>   | 6,906       | 7,082       |

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<sup>2</sup> Weighted average numbers of shares are calculated as follows:

| <i>(Shares)</i>  | <u>2017</u>              | <u>2016</u>              |
|--|--------------------------|--------------------------|
| Ordinary shares issued   | 84,702,850               | 84,702,850               |
| Ordinary treasury shares                                       | <u>(10,087,309)</u>      | <u>(9,560,180)</u>       |
| Ordinary shares outstanding                                    | <u>74,615,541</u>        | <u>75,142,670</u>        |
| <b>Weighted average number of ordinary shares outstanding</b>  | <b><u>74,826,527</u></b> | <b><u>75,231,636</u></b> |
| Preferred shares issued  | 19,426,990               | 19,426,990               |
| Preferred treasury shares                                      | <u>(4,637,703)</u>       | <u>(4,443,759)</u>       |
| Preferred shares outstanding                                   | <u>14,789,287</u>        | <u>14,983,231</u>        |
| <b>Weighted average number of preferred shares outstanding</b> | <b><u>14,840,587</u></b> | <b><u>15,033,931</u></b> |

Diluted earnings per ordinary share for the years ended December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i>  | <u>2017</u> | <u>2016</u> |
|---|-------------|-------------|
| Profit attributable to ordinary shares  | 34,835      | 35,476      |
| Weighted average number of ordinary shares outstanding and dilutive potential ordinary shares (Unit: share) | 74,826,527  | 75,405,897  |
| Diluted earnings per share (in won)   |             |             |
| Diluted earnings per ordinary share   | 466         | 470         |

Diluted earnings per preferred share for the years ended December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i>  | <u>2017</u> | <u>2016</u> |
|---|-------------|-------------|
| Profit attributable to preferred shares   | 6,906       | 7,082       |
| Weighted average number of preferred shares outstanding and dilutive potential preferred shares (Unit: share) | 15,188,105  | 15,068,315  |
| Diluted earnings per share (in won)   |             |             |
| Diluted earnings per preferred share  | 455         | 470         |

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**42. Dividends**

The interim dividends for ordinary shares paid in 2017 and 2016 were ₩7,476 million (₩100 per share, dividend rate: 20%) and ₩7,522 million (₩100 per share, dividend rate: 20%) and the interim dividends for preferred shares were ₩1,482 million (₩100 per share, dividend rate: 20%) and ₩1,505 million (₩100 per share, dividend rate: 20%), respectively.

The dividends for ordinary shares paid in 2017 and 2016 were ₩10,521 million (₩140 per share, dividend rate: 28%) and ₩10,526 million (₩140 per share, dividend rate: 28%) and the dividends for preferred shares were ₩2,248 million (₩150 per share, dividend rate: 30%) and ₩2,256 million (₩150 per share, dividend rate: 30%), respectively.

A dividend for ordinary share in respect of the year ended December 31, 2017, of ₩140 per share (dividend rate: 28%), amounting to total dividend of ₩10,446 million and a dividend for preferred share of ₩150 per share (dividend rate: 30%), amounting to total dividend of ₩2,218 million, are to be proposed at the annual general meeting on March 23, 2018. These financial statements do not reflect this dividend payable.

**43. Cash Generated from Operations**

Cash generated from operations for the years ended December 31, 2017 and 2016, is as follows:

| <i>(in millions of Korean won)</i>                      | <u>2017</u> | <u>2016</u> |
|---|-------------|-------------|
| Profit for the year                                     | 41,619      | 41,790      |
| Adjustments :   | 45,625      | 48,843      |
| Post-employment benefits                                | 8,628       | 8,253       |
| Depreciation and amortization                           | 33,991      | 35,089      |
| Impairment loss on intangible assets                    | 4,330       | 5,239       |
| Impairment loss on available-for-sale financial assets  | 3,137       | 1,655       |
| Interest income   | (3,087)     | (3,031)     |
| Interest expense  | 1,442       | 1,378       |
| Gain on disposal of available-for-sale financial assets | (14,879)    | (15,837)    |
| Dividend income   | (3,876)     | (3,642)     |
| Income tax expense                                      | 12,844      | 11,814      |
| Other   | 3,095       | 7,925       |
| Changes in operating assets and liabilities:            | 16,783      | 168         |
| Decrease in financial assets at fair value              |             |             |
| through gain or loss                                    | 21,320      | 14,088      |
| Increase in trade receivables                           | (1,381)     | (692)       |
| Increase in other receivables                           | (221)       | (605)       |
| Decrease (increase) in inventories                      | 3,161       | (684)       |
| Decrease (increase) in other assets                     | 1,268       | (1,174)     |
| Decrease in trade payables                              | (972)       | (434)       |
| Increase (decrease) in other payables                   | (328)       | 1,678       |

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| <i>(in millions of Korean won)</i>       | <u>2017</u>           | <u>2016</u>          |
|--|-----------------------|----------------------|
| Decrease in provisions                   | (85)                  | (91)                 |
| Decrease in other liabilities            | (1,314)               | (5,013)              |
| Payment of net defined benefit liability | (698)                 | (988)                |
| Deposit in plan assets, net              | (3,560)               | (6,318)              |
| Changes in other assets, liabilities     | <u>(407)</u>          | <u>401</u>           |
| <b>Cash generated from operations</b>    | <b><u>104,027</u></b> | <b><u>90,801</u></b> |

Significant non-cash transactions for the years ended December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i>   | <u>2017</u> | <u>2016</u> |
|--|-------------|-------------|
| Valuation of available-for-sale financial assets                                       | 1,453       | 1,990       |
| Exercise of stock options  | 901         | 1,604       |
| Reclassification of investment properties  | 21,725      | (4,194)     |
| Increase (decrease) in non-trade payables in relation to property, plant and equipment | (4,726)     | 6,068       |
| Increase (decrease) in non-trade payables in relation to intangible assets             | (114)       | 12          |

*Changes in liabilities arising from financing activities*

Changes in liabilities arising from financial activities for the years ended December 31, 2017 and 2016, are as follows:

| <i>(in millions of Korean won)</i> | <u>Liabilities from financing activities</u> |                             |                |
|------------------------------------|--|-----------------------------|----------------|
|                                    | <u>Short-term borrowings</u>                 | <u>Long-term borrowings</u> | <u>Total</u>   |
| At January 1, 2016                 | 5,100  | 23,204                      | 28,304         |
| Cash flows                         | 13,065                                       | (13,766)                    | (701)          |
| Exchange differences               | <u>609</u>                                   | <u>22</u>                   | <u>631</u>     |
| At December 31, 2016               | <u>18,774</u>                                | <u>9,460</u>                | <u>28,234</u>  |
| At January 1, 2017                 | 18,774                                       | 9,460                       | 28,234         |
| Cash flows                         | 2,510  | -                           | 2,510          |
| Exchange differences               | <u>(1,354)</u>                               | <u>(1,259)</u>              | <u>(2,613)</u> |
| At December 31, 2017               | <u>19,930</u>                                | <u>8,201</u>                | <u>28,131</u>  |

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**44. Related Party Transactions**

As at December 31, 2017 and 2016, the ultimate Parent Company of the Group is Daekyo Holdings Co., Ltd.

Details of other related parties that have sales and other transactions with the Group or have receivables and payables balances as at December 31, 2017 and 2016, are as follows:

|                       | December 31, 2017   | December 31, 2016                            | Relationship                                     |
|-----------------------|---|--|--|
| Other related parties | Daekyo D&S Co., Ltd.  | Daekyo D&S Co., Ltd.                         | A subsidiary of Parent Company                   |
|                       | Daekyo CNS Co., Ltd.  | Daekyo CNS Co., Ltd.                         | A subsidiary of Parent Company                   |
|                       | Gangwon Deep Sea Water Co., Ltd.  | Gangwon Deep Sea Water Co., Ltd.             | A subsidiary of Parent Company                   |
|                       | Daekyo Culture foundation   | Daekyo Culture foundation                    | Key management performs the important duty       |
|                       | World Youth and Culture foundation  | World Youth and Culture foundation           | Key management performs the important duty       |
|                       | BongAm Institute  | BongAm Institute                             | Key management performs the important duty       |
|                       | Daekyo Investment Co., Ltd.   | Daekyo Investment Co., Ltd.                  | Key management performs the important duty       |
|                       | Tara Graphics Co., Ltd.   | Tara Graphics Co., Ltd.                      | Relatives of key managements is the entity's CEO |
|                       | Tara Distribution Co., Ltd.   | Tara Distribution Co., Ltd.                  | Relatives of key managements is the entity's CEO |
|                       | Tara TPS Co., Ltd.  | Tara TPS Co., Ltd.                           | Relatives of key managements is the entity's CEO |
|                       | Crystal One Co., Ltd.   | Crystal One Co., Ltd.                        | Relatives of key managements is the entity's CEO |
|                       | Crystal Wine Collection Co., Ltd.   | Crystal Wine Collection Co., Ltd.            | Relatives of key managements is the entity's CEO |
|                       | Crystal Wine Club Co., Ltd.   | Crystal Wine Club Co., Ltd.                  | Key management performs the important duty       |
|                       | Korea contents bank   | -  | Key management performs the important duty       |
| Associates            | With the Green Co., Ltd.  | With the Green Co., Ltd.                     | An associate                                     |
|                       | DKI Growing Star 1'st Investment Partnership  | DKI Growing Star 1'st Investment Partnership | An associate                                     |
|                       | HR DAVINCHI Private Securities Investment Trust 2   | -  | An associate                                     |
|                       | IBK A One Convertible Professional Investment Type Private Security Investment Trust 1                        | -  | An associate                                     |
|                       | Rico-Synergy Collaboration Multi Mezzanine Specialized Investment Model Private Equity Investment Trust No. 3 | -  | An associate                                     |
|                       |   |  |  |

**Daekyo Co., Ltd. and Subsidiaries**  
**Notes to the Consolidated Financial Statements**  
**December 31, 2017 and 2016**

Significant transactions for the years ended December 31, 2017 and 2016, are as follows:

(in millions of Korean won)

|                                    | 2017               |            |                        |                                   |                                     |              |
|------------------------------------|--------------------|------------|------------------------|-----------------------------------|-------------------------------------|--------------|
|                                    | Sales              |            | Purchases              |                                   |                                     |              |
|                                    | Sales <sup>1</sup> | Others     | Purchases <sup>2</sup> | Acquisition of non-current assets | Selling and administrative expenses | Others       |
| <b>Parent Company</b>              |                    |            |                        |                                   |                                     |              |
| Daekyo Holdings Co., Ltd.          | 92                 | 310        | 1                      | 8                                 | 3,531                               | 400          |
| <b>Other related parties</b>       |                    |            |                        |                                   |                                     |              |
| Daekyo D&S Co., Ltd.               | 114                | 37         | 281                    | 141                               | 7,899                               | 4            |
| Daekyo CNS Co., Ltd.               | 195                | 23         | -                      | 3,050                             | 13,906                              | -            |
| Gangwon Deep Sea Water Co., Ltd.   | 92                 | 27         | 3                      | -                                 | 932                                 | 155          |
| Daekyo Culture Foundation          | 134                | 79         | -                      | -                                 | 1                                   | -            |
| World Youth & Culture Foundation   | 108                | -          | -                      | -                                 | -                                   | -            |
| BongAm Institute                   | -                  | -          | -                      | -                                 | -                                   | 621          |
| Deakyo Investment Co., Ltd.        | 44                 | 4          | -                      | -                                 | 624                                 | -            |
| Tara Graphics Co., Ltd.            | -                  | -          | 53                     | 6                                 | 326                                 | -            |
| Tara Distribution Co., Ltd.        | -                  | -          | 6,807                  | -                                 | -                                   | -            |
| Tara TPS Co., Ltd.                 | 312                | -          | 24,892                 | 60                                | 449                                 | -            |
| Crystal One Co., Ltd. <sup>3</sup> | 225                | -          | -                      | -                                 | 1,895                               | 392          |
| Crystal Wine Collection Co., Ltd.  | 23                 | 3          | -                      | -                                 | 1                                   | -            |
| Crystal Wine Club Co., Ltd.        | -                  | -          | -                      | -                                 | 15                                  | 8            |
| Korea contents bank                | -                  | -          | 805                    | -                                 | -                                   | -            |
| With the Green Co., Ltd.           | -                  | -          | -                      | -                                 | 1                                   | -            |
|                                    | <b>1,339</b>       | <b>483</b> | <b>32,842</b>          | <b>3,265</b>                      | <b>29,580</b>                       | <b>1,580</b> |

(in millions of Korean won)

|                                  | 2016               |        |                        |                                   |                                     |        |
|----------------------------------|--------------------|--------|------------------------|-----------------------------------|-------------------------------------|--------|
|                                  | Sales              |        | Purchases              |                                   |                                     |        |
|                                  | Sales <sup>1</sup> | Others | Purchases <sup>2</sup> | Acquisition of non-current assets | Selling and administrative expenses | Others |
| <b>Parent Company</b>            |                    |        |                        |                                   |                                     |        |
| Daekyo Holdings Co., Ltd.        | 64                 | 404    | 89                     | 143                               | 3,447                               | 178    |
| <b>Other related parties</b>     |                    |        |                        |                                   |                                     |        |
| Daekyo D&S Co., Ltd.             | 97                 | 35     | 968                    | 304                               | 5,978                               | -      |
| Daekyo CNS Co., Ltd.             | 193                | 81     | -                      | 2,762                             | 13,034                              | -      |
| Gangwon Deep Sea Water Co., Ltd. | 110                | 17     | 2                      | -                                 | 1,127                               | -      |
| Daekyo Culture Foundation        | 67                 | 106    | -                      | -                                 | 3                                   | 519    |
| World Youth & Culture Foundation | 67                 | -      | -                      | -                                 | -                                   | -      |
| BongAm Institute                 | -                  | -      | -                      | -                                 | -                                   | 531    |
| Deakyo Investment Co., Ltd.      | 38                 | 3      | -                      | -                                 | 1,195                               | -      |
| Tara Graphics Co., Ltd.          | -                  | -      | 70                     | -                                 | 326                                 | -      |

**Daekyo Co., Ltd. and Subsidiaries**  
**Notes to the Consolidated Financial Statements**  
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|                                   |              |            |               |              |               |              |
|-----------------------------------|--------------|------------|---------------|--------------|---------------|--------------|
| Tara Distribution Co., Ltd.       | -            | -          | 6,748         | -            | 931           | -            |
| Tara TPS Co., Ltd.                | 314          | -          | 26,675        | 41           | 439           | -            |
| Crystal One Co., Ltd.             | 221          | -          | -             | -            | 2,091         | -            |
| Crystal Wine Collection Co., Ltd. | 4            | 1          | -             | -            | -             | -            |
| Crystal Wine Club Co., Ltd.       | -            | -          | 3             | -            | 460           | -            |
|                                   | <u>1,175</u> | <u>647</u> | <u>34,555</u> | <u>3,250</u> | <u>29,031</u> | <u>1,228</u> |

<sup>1</sup> Sales of goods and rendering of services are included.

<sup>2</sup> Purchases of goods and services (royalty and others) are included.

<sup>3</sup> The Group acquired new media, travel and insurance divisions from Crystal One Co., Ltd. (Note 45).

The balances of significant receivables and payables as at December 31, 2017 and 2016, are as follows:

(in millions of Korean won)

|                                  | December 31, 2017 |                   |              |                |                |
|----------------------------------|-------------------|-------------------|--------------|----------------|----------------|
|                                  | Receivables       |                   |              | Payables       |                |
|                                  | Trade receivables | Other receivables | Others       | Trade payables | Other payables |
| <b>Parent Company</b>            |                   |                   |              |                |                |
| Daekyo Holdings Co., Ltd.        | 27                | 81                | -            | -              | 9,944          |
| <b>Other related parties</b>     |                   |                   |              |                |                |
| Daekyo D&S Co., Ltd.             | 2                 | 28                | 7,560        | -              | 1,814          |
| Daekyo CNS Co., Ltd.             | -                 | 2                 | -            | -              | 3,993          |
| Gangwon Deep Sea Water Co., Ltd. | -                 | 70                | -            | -              | 287            |
| Daekyo Culture Foundation        | 5                 | 53                | -            | -              | 36             |
| World Youth&Culture Foundation   | -                 | -                 | -            | -              | 36             |
| Deakyo Investment Co., Ltd.      | -                 | 3                 | -            | -              | 692            |
| Tara Graphics Co., Ltd.          | -                 | -                 | -            | -              | 30             |
| Tara Distribution Co., Ltd.      | -                 | -                 | -            | 1,823          | -              |
| Tara TPS Co., Ltd.               | -                 | -                 | -            | 5,820          | 1              |
| Crystal One Co., Ltd.            | -                 | 1                 | -            | -              | 24             |
| Crystal Wine Collection Co. Ltd. | -                 | -                 | -            | -              | 178            |
| Crystal wine Club Co., Ltd.      | -                 | -                 | -            | -              | 3              |
| Korea contents bank              | -                 | -                 | -            | -              | 114            |
|                                  | <u>34</u>         | <u>238</u>        | <u>7,560</u> | <u>7,643</u>   | <u>17,152</u>  |

(in millions of Korean won)

|                              | December 31, 2016 |                   |        |                |                |
|------------------------------|-------------------|-------------------|--------|----------------|----------------|
|                              | Receivables       |                   |        | Payables       |                |
|                              | Trade receivables | Other receivables | Others | Trade payables | Other payables |
| <b>Parent Company</b>        |                   |                   |        |                |                |
| Daekyo Holdings Co., Ltd.    | -                 | 116               | -      | 61             | 7,383          |
| <b>Other related parties</b> |                   |                   |        |                |                |

**Daekyo Co., Ltd. and Subsidiaries**  
**Notes to the Consolidated Financial Statements**  
**December 31, 2017 and 2016**

|                                  |            |            |              |              |               |
|----------------------------------|------------|------------|--------------|--------------|---------------|
| Daekyo D&S Co., Ltd.             | -          | 47         | 7,560        | -            | 1,985         |
| Daekyo CNS Co., Ltd.             | -          | 3          | -            | 11           | 4,506         |
| Gangwon Deep Sea Water Co., Ltd. | -          | 55         | -            | 2            | 301           |
| Daekyo Culture Foundation        | 76         | -          | -            | -            | 36            |
| World Youth&Culture Foundation   | -          | -          | -            | -            | 35            |
| Deakyo Investment Co., Ltd.      | -          | 2          | -            | -            | 559           |
| Tara Graphics Co., Ltd.          | -          | -          | -            | 6            | 78            |
| Tara Distribution Co., Ltd.      | -          | -          | -            | 1,407        | -             |
| Tara TPS Co., Ltd.               | -          | -          | -            | 4,246        | 26            |
| Crystal One Co., Ltd.            | 48         | 34         | -            | -            | 197           |
| Crystal Wine Collection Co. Ltd. | -          | 1          | -            | -            | 10            |
| Crystal wine Club Co., Ltd.      | -          | -          | -            | -            | 1             |
|                                  | <u>124</u> | <u>258</u> | <u>7,560</u> | <u>5,733</u> | <u>15,117</u> |

Fund transactions with related parties for the years ended December 31, 2017 and 2016, are as follows:

(in millions of Korean won)

|  | 2017          |                           |                   |                      |                        |       |
|--|---------------|---------------------------|-------------------|----------------------|------------------------|-------|
|  | Dividend paid | Dividends of subsidiaries | Dividend received | Equity contributions | Borrowing transactions |       |
| (reduction) in cash  |               |                           |                   | Borrowings           | Repayments             |       |
| <b>Parent Company</b>  |               |                           |                   |                      |                        |       |
| Daekyo Holdings Co., Ltd.  | 11,081        | 329                       | -                 | -                    | 4,380                  | 2,810 |
| <b>Other related parties</b>   |               |                           |                   |                      |                        |       |
| Daekyo CNS Co., Ltd.   | -             | 125                       | -                 | -                    | -                      | -     |
| Daekyo Culture Foundation  | 715           | 3                         | -                 | -                    | -                      | -     |
| World Youth&Culture Foundation   | 233           | -                         | -                 | -                    | -                      | -     |
| BongAm Institute   | 30            | -                         | -                 | -                    | -                      | -     |
| Deakyo Investment Co., Ltd.  | -             | 125                       | -                 | -                    | -                      | -     |
| Crystal One Co., Ltd.  | 468           | -                         | -                 | -                    | -                      | -     |
| <b>Associates</b>  |               |                           |                   |                      |                        |       |
| DKI Growing Star 1 <sup>st</sup> Investment Partnership                                | -             | -                         | -                 | (1,212)              | -                      | -     |
| HR DAVINCHI Private Securities Investment Trust 2                                      | -             | -                         | -                 | 5,000                | -                      | -     |
| IBK A One Convertible Professional Investment Type Private Security Investment Trust 1 | -             | -                         | -                 | 3,000                | -                      | -     |
| Rico-Synergy Collaboration Multi Mezzanine   | -             | -                         | -                 | 3,000                | -                      | -     |



**Daekyo Co., Ltd. and Subsidiaries**  
**Notes to the Consolidated Financial Statements**  
**December 31, 2017 and 2016**

Specialized Investment  
Model Private Equity  
Investment Trust No. 3

|        |     |   |       |       |       |
|--------|-----|---|-------|-------|-------|
| 12,527 | 582 | - | 9,788 | 4,380 | 2,810 |
|--------|-----|---|-------|-------|-------|

(in millions of Korean won)

|   | <b>2016</b>          |                                  |                          |   |                               |                   |
|---|----------------------|----------------------------------|--------------------------|---|-------------------------------|-------------------|
|   | <b>Dividend paid</b> | <b>Dividends of subsidiaries</b> | <b>Dividend received</b> | <b>Equity contributions (reduction) in cash</b> | <b>Borrowing transactions</b> |                   |
|   |                      |                                  |                          |   | <b>Borrowings</b>             | <b>Repayments</b> |
| <b>Parent Company</b>                                   |                      |                                  |                          |   |                               |                   |
| Daekyo Holdings Co., Ltd.                               | 11,081               | 294                              | -                        | -   | 500                           | -                 |
| <b>Other related parties</b>                            |                      |                                  |                          |   |                               |                   |
| Daekyo CNS Co., Ltd.                                    | -                    | 100                              | -                        | -   | -                             | -                 |
| Daekyo Culture Foundation                               | 715                  | 3                                | -                        | -   | -                             | -                 |
| World Youth&Culture Foundation                          | 233                  | -                                | -                        | -   | -                             | -                 |
| BongAm Institute  | 30                   | -                                | -                        | -   | -                             | -                 |
| Deakyo Investment Co., Ltd.                             | -                    | 100                              | -                        | -   | -                             | -                 |
| Crystal One Co., Ltd.                                   | 468                  | -                                | -                        | -   | -                             | -                 |
| <b>Associates</b>                                       |                      |                                  |                          |   |                               |                   |
| DKI Growing Star 1 <sup>st</sup> Investment Partnership | -                    | -                                | 1,092                    | (348)   | -                             | -                 |
| With the Green Co., Ltd.                                | -                    | -                                | -                        | 3,893   | -                             | -                 |
|   | <u>12,527</u>        | <u>497</u>                       | <u>1,092</u>             | <u>3,545</u>                                    | <u>500</u>                    | <u>-</u>          |

Key management compensation of the Group for the years ended December 31, 2017 and 2016, consists of:

(in millions of Korean won)

|                             | <b>2017</b>  | <b>2016</b>  |
|-----------------------------|--------------|--------------|
| Short-term employee benefit | 4,574        | 3,787        |
| Post-employment benefits    | 705          | 548          |
|                             | <u>5,279</u> | <u>4,335</u> |

Key management refers to the directors who have significant control and responsibilities on the Group's business plans, operations and controls.

As at December 31, 2017, no payment guarantees are provided by the Group for the funding sources of the related parties and payment guarantees provided by the related parties are described in Note 32.

**Daekyo Co., Ltd. and Subsidiaries**  
**Notes to the Consolidated Financial Statements**  
**December 31, 2017 and 2016**

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**45. Business acquisition**

The Company acquired new media, travel and insurance divisions from Crystal One Co., Ltd. in October, 2017. Details of the assets and liabilities recognized as a result of the acquisition and the assessments of the fair value of net assets at the acquisition date are as follows:

| <i>(in millions of Korean won)</i>   | <u>Amount</u> |
|--|---------------|
| Purchase consideration   |               |
| Cash and cash equivalents  | 815           |
| Total purchase consideration   | <u>815</u>    |
| Recognized amounts of identifiable assets acquired and liabilities assumed |               |
| Trade and other receivables  | 266           |
| Property, plant and equipment  | 1             |
| Intangible assets  | 8             |
| Trade and other payables   | <u>(87)</u>   |
| Net identifiable assets acquired   | <u>188</u>    |
| Goodwill <sup>1</sup>  | <u>627</u>    |

<sup>1</sup>The Group recognized impairment loss amounting to ₩274 million on goodwill arising from the acquisition.

**46. Approval of Financial Statements**

The issuance of the consolidated financial statements as at December 31, 2017 was approved by the Board of Directors on February 19, 2018, which is subject to change with the approval of the shareholders at their annual shareholders' meeting.