

Index No:



University of Kelaniya - Sri Lanka

Centre for Distance and Continuing Education

Faculty of Commerce & Management Studies

Bachelor of Business Management (General) Degree Second Examination (External) – 2013

January - 2017

BMGT E3065 – Business Finance

Time: 03 hours

Instructions

- i. This paper consists of Part A and Part B.
- ii. No of Questions:
Part A – 10
Part B – 04
- iii. Answer all questions.
- iv. Attach Part A of the question paper at the end of your answer script.
- iv. You are strictly advised **NOT** to take **Part A of the question paper** out of the examination hall.

Part A

Answer question 1-10 in Part A by underline the correct answer.

- 01) This sub-area of finance looks at firm's decisions in acquiring and utilizing cash.
- a) Investments
 - b) Financing
 - c) Treasury management
 - d) None of these

- 02) Which of the following statements is correct regarding profit maximization as a primary goal of the firm?
- a) Profit maximization will not lead to increasing short-term profits at the expense of lowering expected future profits.
 - b) Profit maximization considers the firm's risk level.
 - c) Profit maximization does consider the impact on individual shareholder's EPS.
 - d) Profit maximization is concerned more with maximizing net income than the stock price.
- 03) Which of the following would be consistent with an aggressive approach to financing working capital?
- a) Financing permanent inventory buildup with long-term debt.
 - b) Financing short-term needs with short-term funds.
 - c) Financing some long-term needs with short-term funds.
 - d) Financing seasonal needs with short-term funds.
- 04) A profitability index (PI) of 0.56 for a project means that
- a) the project's NPV is greater than zero
 - b) the project's costs (cash outlay) are (is) less than the present value of the project's benefits
 - c) the project returns 56 cents in present value for each current Rupee invested
 - d) the project's NPV is greater than 1
- 05) Which of the following is not considered to be an appropriate form of finance for capital investment projects?
- a) The issue of a debenture.
 - b) A bank overdraft.
 - c) Leasing
 - d) An issue of share capital.

- 06) If the capital market is semi-strong efficient
- a) Investors will be able to make consistent gains by studying and making use of all available public information about the shares
 - b) Investors will not be able to make consistent gains by analyzing the buying behavior at the stock market
 - c) Investors will be able to make consistent gains by studying and making use of information which is not available to the public
 - d) None of above are correct
- 07) A stock of an company has an expected return of 12.25 percent. The beta of the stock is 1.15 and the risk-free rate is 5 percent. What is the market risk premium?
- a) 6.50%
 - b) 15.00%
 - c) 6.30%
 - d) 7.25%
- 08) Which of the following investment alternatives would provide the greatest ending wealth for the investment?
- a) 8% compounded daily (360 days).
 - b) 8.55% compounded quarterly.
 - c) 8.25% compounded annually.
 - d) There is no sufficient information to determine the best alternative from the above alternatives.
- 09) Janaka won a contest that has paid a single LKR 5,000. At 22, he has decided to invest these funds for 45 years until he retire. During this time his account will earn 13%, compounded annually, every year. As soon as Janaka retire (exactly 45 years from today) he will invest the total amount at an interest of 8% compounded annually and will start withdrawing retirement funds in the end of every year for an additional 33 years. How much can he withdraw each year in retirement?
- a) LKR 23,306
 - b) LKR 106,237
 - c) LKR 282,201
 - d) LKR 1,223,207

- 10) Sumith expects to deposit the following cash flows at the end of years 1 through 5, LKR 1,000; LKR 4,000; LKR 9,000; LKR 5,000; and LKR 2,000 respectively. Alternatively, he could deposit a single amount today at the beginning of year 1. How large does the single deposit need to be today if Sumith can earn 10% interest compounded annually?
- a) LKR 15,633.62
 - b) LKR 21,000.00
 - c) LKR 25,178.10
 - d) LKR 27,695.91

(02 X 10 = Total 20 Marks)

Part B

- (01) a) What is meant by agency cost? Explain with examples. (05 Marks)
- b) Tanasha plans to make 30 quarterly deposits of LKR 5000 into a savings account. The first deposit will be made immediately. The savings account pays interest at an annual rate of 7%, compounded quarterly. How much will Tanasha have accumulated in the savings account at the end of the seven and a half-year period? (05 marks)
- c) Mrs. Senevirathne would like to support the education of one of her relations, Nimantha, who plans to begin university education in three years. How much will Mrs. Senevirathne have to invest today, at an interest of 7 percent, to be able to give a stipend of LKR 4,000 at the beginning of each year for four years of Nimantha's university education. (05 marks)
- d) Explain what working capital management is and briefly discuss the importance of working capital management for an organization. (05 marks)
- (Total 20 Marks)**

- (02) a) Senuda Electricals has two investment opportunities, each with an initial cost of LKR 70 Million and each having the expected net cash inflows shown below. LKR (in Millions)

| | | Project X | Project Y |
|--------------|--------|------------------|------------------|
| Cash Inflows | Year 1 | 10 | 50 |
| | Year 2 | 20 | 40 |
| | Year 3 | 30 | 20 |
| | Year 4 | 45 | 10 |
| | Year 5 | 60 | 10 |
| | Total | 165 | 130 |

Assume no residual values at the end of the fifth year. The firm's cost of capital is 10%.

You are required to

- i. **Calculate the net present value for each project.**
- ii. **On the basis of NPV, advise the company whether these projects should be undertaken.**

(08 Marks)

- b) You have been given the following information with related to Kandy Tera Ltd.

| | |
|------------------------|--------------|
| Current activity level | 50,000 units |
| Sales price per unit | LKR 25 |
| Variable cost per unit | LKR 14 |
| Fixed operating costs | LKR 160,000 |
| Interest payments | LKR 47,000 |

You are required to calculate the following for Kandy Tera Ltd.

- i) Degree of Operating Leverage
- ii) Degree of Financial Leverage
- iii) Degree of Total Leverage

(06 Marks)

- c) How EBIT-EPS analysis can be used in deciding a capital structure of a company? Explain.

(06 Marks)

(Total 20 Marks)

- (03) a) The capital structure of Canfi Products Company Ltd. is as follows.

| | LKR (000) |
|--------------------------------------|----------------|
| Ordinary shares of LKR 10 each | 52,000 |
| Retained Earnings | 15,600 |
| 12% Preference shares of LKR 10 each | 18,000 |
| 11% Debentures of LKR 100 each | 90,000 |
| 14% Long term loan | 800 |
| | 176,400 |

The preference shares are currently selling at LKR 20 per share and the debentures are currently selling at LKR 108 per each. 11% debentures are redeemable at par in 6 years' time. Company currently pays an annual ordinary dividend of LKR 2.20 per share. This ordinary dividends of the company are expected to grow at a 7 % annual rate for each of the following two years, and then settle down to a steady state growth rate of 5% annually. The market price of LKR 10 ordinary share is LKR 25. The ordinary dividend and debenture interest are due to be paid in near future and preference dividend has just paid. Assume that the corporate tax rate is 30%.

You are required to calculate the Weighted Average Cost of Capital (WACC) for Canfi Products Company Ltd. based on market values. **(If required, use only 6% and 10% discounting factors for your calculations.)**

(15 Marks)

- b) Explain the difference between Weighted Average Cost of Capital and Project Cost of Capital?

(05 marks)

(Total 20 Marks)

(04) Write short notes on following:

- a) Stable dividend policy
- b) Risk diversification
- c) Signaling theory as a capital structure theory
- d) Difference between Net Present Value (NPV) method and Accounting Rate of Return (ARR) method

(Total 20 Marks)

Present Value and Future Value Tables

Table A-3 Present Value Interest Factors for One Dollar Discounted at k Percent for n Periods: $PVIF_{k,n} = 1 / (1 + k)^n$

| Period | 1% | 2% | 3% | 4% | 5% | 6% | 7% | 8% | 9% | 10% | 11% | 12% | 13% | 14% | 15% | 16% | 20% | 24% | 25% | 30% |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 | 0.9901 | 0.9804 | 0.9709 | 0.9615 | 0.9524 | 0.9434 | 0.9346 | 0.9259 | 0.9174 | 0.9091 | 0.9009 | 0.8929 | 0.8850 | 0.8772 | 0.8696 | 0.8621 | 0.8333 | 0.8085 | 0.8000 | 0.7692 |
| 2 | 0.9803 | 0.9612 | 0.9426 | 0.9246 | 0.9070 | 0.8900 | 0.8734 | 0.8573 | 0.8417 | 0.8264 | 0.8116 | 0.7972 | 0.7831 | 0.7695 | 0.7561 | 0.7432 | 0.6944 | 0.6504 | 0.6400 | 0.5917 |
| 3 | 0.9708 | 0.9423 | 0.9151 | 0.8890 | 0.8638 | 0.8396 | 0.8163 | 0.7938 | 0.7722 | 0.7513 | 0.7312 | 0.7118 | 0.6931 | 0.6750 | 0.6575 | 0.6407 | 0.5787 | 0.5245 | 0.5120 | 0.4552 |
| 4 | 0.9610 | 0.9238 | 0.8885 | 0.8546 | 0.8227 | 0.7921 | 0.7629 | 0.7350 | 0.7084 | 0.6830 | 0.6587 | 0.6355 | 0.6133 | 0.5921 | 0.5718 | 0.5523 | 0.4823 | 0.4230 | 0.4096 | 0.3501 |
| 5 | 0.9515 | 0.9057 | 0.8626 | 0.8219 | 0.7835 | 0.7473 | 0.7130 | 0.6806 | 0.6499 | 0.6209 | 0.5935 | 0.5674 | 0.5428 | 0.5194 | 0.4972 | 0.4761 | 0.4019 | 0.3411 | 0.3277 | 0.2693 |
| 6 | 0.9420 | 0.8880 | 0.8375 | 0.7903 | 0.7462 | 0.7050 | 0.6663 | 0.6302 | 0.5963 | 0.5645 | 0.5346 | 0.5066 | 0.4803 | 0.4556 | 0.4323 | 0.4104 | 0.3349 | 0.2751 | 0.2621 | 0.2072 |
| 7 | 0.9327 | 0.8706 | 0.8131 | 0.7599 | 0.7107 | 0.6651 | 0.6227 | 0.5835 | 0.5470 | 0.5132 | 0.4817 | 0.4523 | 0.4251 | 0.3996 | 0.3759 | 0.3538 | 0.2791 | 0.2218 | 0.2097 | 0.1594 |
| 8 | 0.9235 | 0.8535 | 0.7894 | 0.7307 | 0.6768 | 0.6274 | 0.5820 | 0.5403 | 0.5019 | 0.4665 | 0.4339 | 0.4039 | 0.3762 | 0.3506 | 0.3269 | 0.3050 | 0.2326 | 0.1769 | 0.1678 | 0.1226 |
| 9 | 0.9143 | 0.8388 | 0.7684 | 0.7026 | 0.6446 | 0.5919 | 0.5439 | 0.5002 | 0.4604 | 0.4241 | 0.3909 | 0.3606 | 0.3329 | 0.3075 | 0.2843 | 0.2630 | 0.1938 | 0.1443 | 0.1342 | 0.0943 |
| 10 | 0.9053 | 0.8203 | 0.7441 | 0.6736 | 0.6139 | 0.5584 | 0.5083 | 0.4632 | 0.4224 | 0.3855 | 0.3522 | 0.3220 | 0.2946 | 0.2697 | 0.2472 | 0.2267 | 0.1615 | 0.1164 | 0.1074 | 0.0725 |
| 11 | 0.8963 | 0.8043 | 0.7224 | 0.6496 | 0.5847 | 0.5288 | 0.4751 | 0.4289 | 0.3875 | 0.3505 | 0.3173 | 0.2875 | 0.2607 | 0.2366 | 0.2149 | 0.1954 | 0.1346 | 0.0938 | 0.0859 | 0.0558 |
| 12 | 0.8874 | 0.7888 | 0.7014 | 0.6246 | 0.5568 | 0.4970 | 0.4440 | 0.3971 | 0.3555 | 0.3186 | 0.2858 | 0.2567 | 0.2307 | 0.2076 | 0.1869 | 0.1685 | 0.1122 | 0.0757 | 0.0687 | 0.0429 |
| 13 | 0.8787 | 0.7730 | 0.6810 | 0.6006 | 0.5303 | 0.4688 | 0.4150 | 0.3677 | 0.3262 | 0.2897 | 0.2575 | 0.2282 | 0.2042 | 0.1821 | 0.1625 | 0.1452 | 0.0935 | 0.0610 | 0.0550 | 0.0330 |
| 14 | 0.8700 | 0.7579 | 0.6611 | 0.5775 | 0.5051 | 0.4423 | 0.3878 | 0.3405 | 0.2992 | 0.2633 | 0.2320 | 0.2046 | 0.1807 | 0.1597 | 0.1413 | 0.1252 | 0.0779 | 0.0492 | 0.0440 | 0.0254 |
| 15 | 0.8613 | 0.7430 | 0.6419 | 0.5553 | 0.4810 | 0.4173 | 0.3624 | 0.3152 | 0.2745 | 0.2394 | 0.2090 | 0.1827 | 0.1599 | 0.1401 | 0.1229 | 0.1079 | 0.0649 | 0.0397 | 0.0352 | 0.0195 |
| 16 | 0.8528 | 0.7284 | 0.6232 | 0.5339 | 0.4581 | 0.3938 | 0.3387 | 0.2919 | 0.2519 | 0.2176 | 0.1883 | 0.1631 | 0.1415 | 0.1229 | 0.1069 | 0.0930 | 0.0541 | 0.0320 | 0.0281 | 0.0150 |
| 17 | 0.8444 | 0.7142 | 0.6050 | 0.5134 | 0.4383 | 0.3734 | 0.3186 | 0.2720 | 0.2311 | 0.1978 | 0.1696 | 0.1456 | 0.1252 | 0.1078 | 0.0929 | 0.0802 | 0.0451 | 0.0258 | 0.0225 | 0.0116 |
| 18 | 0.8360 | 0.7002 | 0.5874 | 0.4936 | 0.4185 | 0.3530 | 0.2989 | 0.2520 | 0.2120 | 0.1790 | 0.1528 | 0.1300 | 0.1106 | 0.0948 | 0.0808 | 0.0681 | 0.0376 | 0.0208 | 0.0180 | 0.0089 |
| 19 | 0.8277 | 0.6864 | 0.5703 | 0.4746 | 0.3987 | 0.3330 | 0.2785 | 0.2317 | 0.1945 | 0.1635 | 0.1377 | 0.1161 | 0.0981 | 0.0829 | 0.0703 | 0.0596 | 0.0313 | 0.0168 | 0.0144 | 0.0068 |
| 20 | 0.8195 | 0.6730 | 0.5537 | 0.4564 | 0.3799 | 0.3148 | 0.2594 | 0.2145 | 0.1784 | 0.1486 | 0.1240 | 0.1037 | 0.0866 | 0.0728 | 0.0611 | 0.0514 | 0.0261 | 0.0135 | 0.0118 | 0.0053 |
| 21 | 0.8114 | 0.6598 | 0.5375 | 0.4388 | 0.3628 | 0.2974 | 0.2415 | 0.1967 | 0.1637 | 0.1351 | 0.1117 | 0.0926 | 0.0768 | 0.0638 | 0.0531 | 0.0443 | 0.0217 | 0.0109 | 0.0092 | 0.0040 |
| 22 | 0.8034 | 0.6468 | 0.5219 | 0.4220 | 0.3461 | 0.2807 | 0.2247 | 0.1800 | 0.1502 | 0.1228 | 0.1007 | 0.0826 | 0.0680 | 0.0560 | 0.0462 | 0.0382 | 0.0181 | 0.0088 | 0.0074 | 0.0031 |
| 23 | 0.7954 | 0.6342 | 0.5067 | 0.4057 | 0.3298 | 0.2644 | 0.2085 | 0.1638 | 0.1378 | 0.1117 | 0.0907 | 0.0736 | 0.0600 | 0.0491 | 0.0402 | 0.0329 | 0.0161 | 0.0071 | 0.0059 | 0.0024 |
| 24 | 0.7876 | 0.6217 | 0.4919 | 0.3901 | 0.3142 | 0.2488 | 0.1929 | 0.1482 | 0.1222 | 0.1015 | 0.0817 | 0.0659 | 0.0532 | 0.0431 | 0.0349 | 0.0284 | 0.0126 | 0.0057 | 0.0047 | 0.0018 |
| 25 | 0.7798 | 0.6098 | 0.4776 | 0.3751 | 0.2993 | 0.2339 | 0.1784 | 0.1337 | 0.1078 | 0.0873 | 0.0696 | 0.0568 | 0.0471 | 0.0378 | 0.0304 | 0.0245 | 0.0105 | 0.0046 | 0.0038 | 0.0014 |
| 30 | 0.7419 | 0.5621 | 0.4120 | 0.3083 | 0.2314 | 0.1741 | 0.1314 | 0.0994 | 0.0784 | 0.0573 | 0.0437 | 0.0334 | 0.0258 | 0.0196 | 0.0151 | 0.0118 | 0.0042 | 0.0016 | 0.0012 | * |
| 35 | 0.7059 | 0.5000 | 0.3554 | 0.2534 | 0.1813 | 0.1301 | 0.0957 | 0.0676 | 0.0490 | 0.0358 | 0.0259 | 0.0189 | 0.0139 | 0.0102 | 0.0075 | 0.0055 | 0.0017 | 0.0005 | * | * |
| 38 | 0.6899 | 0.4902 | 0.3450 | 0.2437 | 0.1727 | 0.1227 | 0.0875 | 0.0626 | 0.0449 | 0.0323 | 0.0234 | 0.0169 | 0.0123 | 0.0089 | 0.0065 | 0.0048 | 0.0014 | * | * | * |
| 40 | 0.6717 | 0.4829 | 0.3366 | 0.2363 | 0.1662 | 0.0972 | 0.0668 | 0.0460 | 0.0318 | 0.0221 | 0.0154 | 0.0107 | 0.0075 | 0.0053 | 0.0037 | 0.0026 | 0.0007 | * | * | * |
| 50 | 0.6080 | 0.3715 | 0.2281 | 0.1407 | 0.0872 | 0.0543 | 0.0339 | 0.0213 | 0.0134 | 0.0085 | 0.0054 | 0.0035 | 0.0022 | 0.0014 | 0.0009 | 0.0006 | * | * | * | * |

Table A-4 Present Value Interest Factors for a One-Dollar Annuity Discounted at k Percent for n Periods: $PVIFA = [1 - 1/(1 + k)^n] / k$

| Period | 1% | 2% | 3% | 4% | 5% | 6% | 7% | 8% | 9% | 10% | 11% | 12% | 13% | 14% | 15% | 16% | 20% | 24% | 25% | 30% |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 | 0.9901 | 0.9804 | 0.9709 | 0.9615 | 0.9524 | 0.9434 | 0.9346 | 0.9259 | 0.9174 | 0.9091 | 0.9009 | 0.8929 | 0.8850 | 0.8772 | 0.8696 | 0.8621 | 0.8333 | 0.8085 | 0.8000 | 0.7692 |
| 2 | 1.9704 | 1.9416 | 1.9135 | 1.8861 | 1.8594 | 1.8334 | 1.8080 | 1.7833 | 1.7591 | 1.7355 | 1.7125 | 1.6901 | 1.6681 | 1.6467 | 1.6257 | 1.6052 | 1.5278 | 1.4568 | 1.4400 | 1.3809 |
| 3 | 2.9410 | 2.8839 | 2.8286 | 2.7751 | 2.7232 | 2.6730 | 2.6243 | 2.5771 | 2.5313 | 2.4869 | 2.4437 | 2.4018 | 2.3612 | 2.3216 | 2.2832 | 2.2459 | 2.1065 | 1.9813 | 1.9520 | 1.8161 |
| 4 | 3.9020 | 3.8077 | 3.7171 | 3.6299 | 3.5460 | 3.4651 | 3.3872 | 3.3121 | 3.2397 | 3.1699 | 3.1024 | 3.0373 | 2.9745 | 2.9137 | 2.8550 | 2.7982 | 2.5887 | 2.4043 | 2.3616 | 2.1662 |
| 5 | 4.8534 | 4.7135 | 4.5797 | 4.4518 | 4.3295 | 4.2124 | 4.1002 | 3.9927 | 3.8897 | 3.7906 | 3.6959 | 3.6048 | 3.5172 | 3.4331 | 3.3522 | 3.2743 | 2.9906 | 2.7454 | 2.6893 | 2.4356 |
| 6 | 5.7955 | 5.6014 | 5.4172 | 5.2421 | 5.0757 | 4.9173 | 4.7655 | 4.6229 | 4.4859 | 4.3533 | 4.2305 | 4.1114 | 3.9975 | 3.8887 | 3.7845 | 3.6847 | 3.3255 | 3.0205 | 2.9514 | 2.6427 |
| 7 | 6.7282 | 6.4720 | 6.2303 | 6.0021 | 5.7864 | 5.5824 | 5.3893 | 5.2064 | 5.0330 | 4.8684 | 4.7122 | 4.5638 | 4.4228 | 4.2883 | 4.1604 | 4.0386 | 3.6046 | 3.2423 | 3.1611 | 2.8021 |
| 8 | 7.6517 | 7.3255 | 7.0197 | 6.7327 | 6.4632 | 6.2098 | 5.9713 | 5.7466 | 5.5348 | 5.3349 | 5.1461 | 4.9676 | 4.7988 | 4.6389 | 4.4873 | 4.3436 | 3.8372 | 3.4212 | 3.3289 | 2.9247 |
| 9 | 8.5660 | 8.1622 | 7.7861 | 7.4353 | 7.1078 | 6.8017 | 6.5152 | 6.2469 | 5.9952 | 5.7590 | 5.5370 | 5.3282 | 5.1317 | 4.9464 | 4.7716 | 4.6085 | 4.0310 | 3.6655 | 3.4631 | 3.0190 |
| 10 | 9.4713 | 8.9826 | 8.5302 | 8.1109 | 7.7217 | 7.3601 | 7.0236 | 6.7101 | 6.4177 | 6.1446 | 5.8892 | 5.6502 | 5.4262 | 5.2161 | 5.0188 | 4.8332 | 4.1925 | 3.6819 | 3.5705 | 3.0915 |
| 11 | 10.368 | 9.7868 | 9.2526 | 8.7605 | 8.3064 | 7.8869 | 7.4987 | 7.1390 | 6.8052 | 6.4951 | 6.2065 | 5.9377 | 5.6869 | 5.4527 | 5.2337 | 5.0286 | 4.3271 | 3.7757 | 3.6664 | 3.1473 |
| 12 | 11.255 | 10.575 | 9.9540 | 9.3851 | 8.8633 | 8.3838 | 7.9427 | 7.5361 | 7.1607 | 6.8137 | 6.4924 | 6.1944 | 5.9176 | 5.6603 | 5.4206 | 5.1971 | 4.4392 | 3.8514 | 3.7251 | 3.1903 |
| 13 | 12.134 | 11.348 | 10.635 | 9.9666 | 9.3936 | 8.8527 | 8.3577 | 7.9036 | 7.4869 | 7.1034 | 6.7499 | 6.4235 | 6.1218 | 5.8424 | 5.5831 | 5.3423 | 4.5327 | 3.9124 | 3.7801 | 3.2233 |
| 14 | 13.004 | 12.106 | 11.296 | 10.563 | 9.8986 | 9.2950 | 8.7455 | 8.2442 | 7.7862 | 7.3667 | 6.9819 | 6.6282 | 6.3025 | 6.0021 | 5.7245 | 5.4675 | 4.6106 | 3.9616 | 3.8241 | 3.2487 |
| 15 | 13.865 | 12.849 | 11.938 | 11.118 | 10.380 | 9.7122 | 9.1079 | 8.5995 | 8.0807 | 7.6061 | 7.1909 | 6.8109 | 6.4624 | 6.1422 | 5.8474 | 5.5755 | 4.6755 | 4.0013 | 3.8593 | 3.2682 |
| 16 | 14.718 | 13.578 | 12.561 | 11.652 | 10.838 | 10.108 | 9.4466 | 8.8514 | 8.3128 | 7.8237 | 7.3792 | 6.9740 | 6.6039 | 6.2651 | 5.9542 | 5.6685 | 4.7296 | 4.0333 | 3.8774 | 3.2832 |
| 17 | 15.562 | 14.292 | 13.166 | 12.166 | 11.274 | 10.477 | 9.7632 | 9.1216 | 8.5436 | 8.0216 | 7.5488 | 7.1196 | 6.7291 | 6.3729 | 6.0472 | 5.7467 | 4.7746 | 4.0591 | 3.9099 | 3.2948 |
| 18 | 16.398 | 14.992 | 13.754 | 12.659 | 11.690 | 10.828 | 10.059 | 9.3719 | 8.7596 | 8.2014 | 7.7016 | 7.2497 | 6.8399 | 6.4674 | 6.1280 | 5.8178 | 4.8122 | 4.0799 | 3.9279 | 3.3037 |
| 19 | 17.226 | 15.678 | 14.324 | 13.134 | 12.085 | 11.158 | 10.336 | 9.6036 | 8.9501 | 8.3649 | 7.8393 | 7.3658 | 6.9380 | 6.5504 | 6.1982 | 5.8775 | 4.8435 | 4.0967 | 3.9424 | 3.3105 |
| 20 | 18.046 | 16.351 | 14.877 | 13.590 | 12.482 | 11.470 | 10.594 | 9.8181 | 9.1285 | 8.5136 | 7.9633 | 7.4694 | 7.0248 | 6.6231 | 6.2593 | 5.9288 | 4.8996 | 4.1103 | 3.9539 | 3.3158 |
| 21 | 18.857 | 17.011 | 15.415 | 14.029 | 12.821 | 11.784 | 10.836 | 10.017 | 9.2922 | 8.6487 | 8.0751 | 7.5620 | 7.1016 | 6.6870 | 6.3125 | 5.9731 | 4.8913 | 4.1212 | 3.9631 | 3.3198 |
| 22 | | | | | | | | | | | | | | | | | | | | |

