C
NATIONAL UNIVERSITY OF LESOTHO

# BSC ENVIRONMENTAL HEALTH \& <br> BSC NUTRITION <br> SUPPLEMENTARY I EXAMINATIONS 

# NUT4306/EHS407: PROJECT MANAGEMENT AND ENTREPRENEURSHIP 

TIME: 3 HOURS

TOTAL MARKS: 100

## INSTRUCTIONS

- Read instructions before attempting any question in this paper
- Attempt every question in this paper
- This paper consists of two sections, section A and section B
- Section A consists of questions deduced from project management part while section $B$ is made up of questions from the entrepreneurship part
- You may need your calculator to attempt some of the questions
- For entrepreneurship questions use compound interest NOT simple interest for your calculations
- The discrete cash flow interest factors are shown at the back of the page


## SECTION A: PROJECT MANAGEMENT [62 MARKS]

1. State four phases of a project [4 marks]
2. Define what a project life-cycle mean. [2]
3. Compare and contrast between the two types of project selection models [6 marks]
4. Following countless complaints from relevant stakeholders regarding insufficient lecture theatres, National University of Lesotho decided to upgrade its lecture theatres and a professional project manager was engaged to manage construction of Moshoeshoe building and activities for this project are summarized in table 1 below.

| Activity | Predecessor | Duration (days) |
| :--- | :--- | :--- |
| A | - | 4 |
| B | A | 6 |
| C | A | 3 |
| D | B | 6 |
| E | C | 5 |
| F | C | 4 |
| G | D, E | 2 |
| H | F, G | 6 |

i. Construct a network diagram for this project [ 5 marks]
ii. Calculate the early start and early finish for every activity listed in table 1 above [ 6 marks]
iii. Define what is a critical path and calculate the critical path for this project [4 marks]
iv. Calculate the late start and late finish for this project [5 marks]
v. Define a slack or float in project management [ 2 marks]
vi. Calculate FLOAT/SLACK in this project [ 2 marks]
vii. Can activities in the critical path be SLACKED? Justify your answer above [ 2 marks]
5. Explain why a project would/can be terminated? [2 marks]
6. Outline the 4 types of project termination [4 marks]
7. Differentiate between Expression Of Interest (IOE) and Request For Proposal (RFP) [2 marks]
8. Why is important to draft a RFP in project management and what does it entail [6 marks]
9. Briefly describe how a tendering process is conducted from RFP to contract appointment [10 marks]

## SECTION B: ENTREPRENUERSHIP [ 38 MARKS]

1. You have just been appointed as a Marketing specialist for XXX company that manufactures still water and you are given a responsibility to come up with the best marketing principles and strategies;
a) What will be your proposed marketing strategies? [3 marks]
b) What resources will you need? [2 marks]
c) What will be your product competitive advantages and disadvantages in terms of marketing principles and branding? [5 marks]
d) Illustrate crossing the chasm and the position of your product by showing a chasm chart [4 marks]
e) How you will approach the decision makers in the buyers' organizations for them to switch to your product [3 marks]
2. The department of Traffic Security of a city is considering the purchase of new drone for aerial surveillance of traffic on its most congested streets. A similar purchase 4 years ago cost LSL 1200 000.00. At an interest rate of $7 \%$ per year, what is the equivalent value today of the previous LSL 1200000.00 expenditure? [3 marks]
3. In order to make CDs to look more attractive as an investment than they really are, some banks advertise that their rates are higher than the competitor's rates, however the fine print says the rate is based on simple interest. If you were to deposit LSL10 000.00 at $10 \%$ per year simple interest in a CD, what compound interest rate would yield the same amount of money in 3 years? [3 marks]
4. A contractor purchased equipment for LSL 500000 that provided income of LSL 60 000.00 per year. At an interest rate of $9 \%$ per year, calculate the length of time (in years) required to recover the investment [3 marks]
5. Mr Lillo has initially bought a car at LSL500 000.00, its annual maintenance and operating costs are LSL 5000.00 and LSL 15000.00 respectively and if he decides to sell this car after 5 it is going to give him LSL 100000.00 . Alternatively, there is a new bakkie in the market that costs LSL 700000.00 and it predetermined annual operating costs will be LSL 6000.00 and if he decides to sell it after 5 years it is about to give him LSL350 000.00, on the basis of annual worth analysis, should he keep the old car or replace it, consider annual interest rate of $11 \%$ [ 6 marks]
6. One of the two methods must be used to produce expansion anchors. Method A costs LSL 80000.00 initially and will have a LSL 15000.00 salvage value after 3 years. The operating cost with this method will be LSL 30000 per year. Method B will have a first cost of LSL 120 000.00, an operating cost of LSL 8000.00 per year, and a LSL 40 000.00 salvage value after 3 years. At an interest rate of $12 \%$ per year, which method should be used on the basis of a present worth analysis? Justify your answer [6 marks]

## 'END"

| 7\% |  | TABLE 1 | Discrete Cash Flow: Compound Interest Factors |  |  |  |  | 7\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Single Payments |  | Uniform Series Payments |  |  |  | Arithmetic Gradients |  |
| $n$ | Compound <br> Amount $F / P$ | Present Worth P/F | Sinking Fund A/F | Compound <br> Amount F/A | Capital Recovery $A / P$ | Present Worth P/A | Gradient Present Worth P/G | Gradient Uniform Series A/G |
| 1 | 1.0700 | 0.9346 | 1.00000 | 1.0000 | 1.07000 | 0.9346 |  |  |
| 2 | 1.1449 | 0.8734 | 0.48309 | 2.0700 | 0.55309 | 1.8080 | 0.8734 | 0.4831 |
| 3 | 1.2250 | 0.8163 | 0.31105 | 3.2149 | 0.38105 | 2.6243 | 2.5060 | 0.9549 |
| 4 | 1.3108 | 0.7629 | 0.22523 | 4.4399 | 0.29523 | 3.3872 | 4.7947 | 1.4155 |
| 5 | 1.4026 | 0.7130 | 0.17389 | 5.7507 | 0.24389 | 4.1002 | 7.6467 | 1.8650 |
| 6 | 1.5007 | 0.6663 | 0.13980 | 7.1533 | 0.20980 | 4.7665 | 10.9784 | 2.3032 |
| 7 | 1.6058 | 0.6227 | 0.11555 | 8.6540 | 0.18555 | 5.3893 | 14.7149 | 2.7304 |
| 8 | 1.7182 | 0.5820 | 0.09747 | 10.2598 | 0.16747 | 5.9713 | 18.7889 | 3.1465 |
| 9 | 1.8385 | 0.5439 | 0.08349 | 11.9780 | 0.15349 | 6.5152 | 23.1404 | 3.5517 |
| 10 | 1.9672 | 0.5083 | 0.07238 | 13.8164 | 0.14238 | 7.0236 | 27.7156 | 3.9461 |
| 11 | 2.1049 | 0.4751 | 0.06336 | 15.7836 | 0.13336 | 7.4987 | 32.4665 | 4.3296 |
| 12 | 2.2522 | 0.4440 | 0.05590 | 17.8885 | 0.12590 | 7.9427 | 37.3506 | 4.7025 |
| 13 | 2.4098 | 0.4150 | 0.04965 | 20.1406 | 0.11965 | 8.3577 | 42.3302 | 5.0648 |
| 14 | 2.5785 | 0.3878 | 0.04434 | 22.5505 | 0.11434 | 8.7455 | 47.3718 | 5.4167 |
| 15 | 2.7590 | 0.3624 | 0.03979 | 25.1290 | 0.10979 | 9.1079 | 52.4461 | 5.7583 |
| 16 | 2.9522 | 0.3387 | 0.03586 | 27.8881 | 0.10586 | 9.4466 | 57.5271 | 6.0897 |
| 17 | 3.1588 | 0.3166 | 0.03243 | 30.8402 | 0.10243 | 9.7632 | 62.5923 | 6.4110 |
| 18 | 3.3799 | 0.2959 | 0.02941 | 33.9990 | 0.09941 | 10.0591 | 67.6219 | 6.7225 |
| 19 | 3.6165 | 0.2765 | 0.02675 | 37.3790 | 0.09675 | 10.3356 | 72.5991 | 7.0242 |
| 20 | 3.8697 | 0.2584 | 0.02439 | 40.9955 | 0.09439 | 10.5940 | 77.5091 | 7.3163 |
| 21 | 4.1406 | 0.2415 | 0.02229 | 44.8652 | 0.09229 | 10.8355 | 82.3393 | 7.5990 |
| 22 | 4.4304 | 0.2257 | 0.02041 | 49.0057 | 0.09041 | 11.0612 | 87.0793 | 7.8725 |
| 23 | 4.7405 | 0.2109 | 0.01871 | 53.4361 | 0.08871 | 11.2722 | 91.7201 | 8.1369 |
| 24 | 5.0724 | 0.1971 | 0.01719 | 58.1767 | 0.08719 | 11.4693 | 96.2545 | 8.3923 |
| 25 | 5.4274 | 0.1842 | 0.01581 | 63.2490 | 0.08581 | 11.6536 | 100.6765 | 8.6391 |
| 26 | 5.8074 | 0.1722 | 0.01456 | 68.6765 | 0.08456 | 11.8258 | 104.9814 | 8.8773 |
| 27 | 6.2139 | 0.1609 | 0.01343 | 74.4838 | 0.08343 | 11.9867 | 109.1656 | 9.1072 |
| 28 | 6.6488 | 0.1504 | 0.01239 | 80.6977 | 0.08239 | 12.1371 | 113.2264 | 9.3289 |
| 29 | 7.1143 | 0.1406 | 0.01145 | 87.3465 | 0.08145 | 12.2777 | 117.1622 | 9.5427 |
| 30 | 7.6123 | 0.1314 | 0.01059 | 94.4608 | 0.08059 | 12.4090 | 120.9718 | 9.7487 |
| 31 | 8.1451 | 0.1228 | 0.00980 | 102.0730 | 0.07980 | 12.5318 | 124.6550 | 9.9471 |
| 32 | 8.7153 | 0.1147 | 0.00907 | 110.2182 | 0.07907 | 12.6466 | 128.2120 | 10.1381 |
| 33 | 9.3253 | 0.1072 | 0.00841 | 118.9334 | 0.07841 | 12.7538 | 131.6435 | 10.3219 |
| 34 | 9.9781 | 0.1002 | 0.00780 | 128.2588 | 0.07780 | 12.8540 | 134.9507 | 10.4987 |
| 35 | 10.6766 | 0.0937 | 0.00723 | 138.2369 | 0.07723 | 12.9477 | 138.1353 | 10.6687 |
| 40 | 14.9745 | 0.0668 | 0.00501 | 199.6351 | 0.07501 | 13.3317 | 152.2928 | 11.4233 |
| 45 | 21.0025 | 0.0476 | 0.00350 | 285.7493 | 0.07350 | 13.6055 | 163.7559 | 12.0360 |
| 50 | 29.4570 | 0.0339 | 0.00246 | 406.5289 | 0.07246 | 13.8007 | 172.9051 | 12.5287 |
| 55 | 41.3150 | 0.0242 | 0.00174 | 575.9286 | 0.07174 | 13.9399 | 180.1243 | 12.9215 |
| 60 | 57.9464 | 0.0173 | 0.00123 | 813.5204 | 0.07123 | 14.0392 | 185.7677 | 13.2321 |
| 65 | 81.2729 | 0.0123 | 0.00087 | 1146.76 | 0.07087 | 14.1099 | 190.1452 | 13.4760 |
| 70 | 113.9894 | 0.0088 | 0.00062 | 1614.13 | 0.07062 | 14.1604 | 193.5185 | 13.6662 |
| 75 | 159.8760 | 0.0063 | 0.00044 | 2269.66 | 0.07044 | 14.1964 | 196.1035 | 13.8136 |
| 80 | 224.2344 | 0.0045 | 0.00031 | 3189.06 | 0.07031 | 14.2220 | 198.0748 | 13.9273 |
| 85 | 314.5003 | 0.0032 | 0.00022 | 4478.58 | 0.07022 | 14.2403 | 199.5717 | 14.0146 |
| 90 | 441.1030 | 0.0023 | 0.00016 | 6287.19 | 0.07016 | 14.2533 | 200.7042 | 14.0812 |
| 95 | 618.6697 | 0.0016 | 0.00011 | 8823.85 | 0.07011 | 14.2626 | 201.5581 | 14.1319 |
| 96 | 661.9766 | 0.0015 | 0.00011 | 9442.52 | 0.07011 | 14.2641 | 201.7016 | 14.1405 |
| 98 | 757.8970 | 0.0013 | 0.00009 | 10813 | 0.07009 | 14.2669 | 201.9651 | 14.1562 |
| 100 | 867.7163 | 0.0012 | 0.00008 | 12382 | 0.07008 | 14.2693 | 202.2001 | 14.1703 |


| 9\% |  | TABLE 1 | Discrete Cash Flow: Compound Interest Factors |  |  |  |  | 9\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Single Payments |  | Uniform Series Payments |  |  |  | Arithmetic Gradients |  |
| $n$ | Compound Amount F/P | Present Worth P/F | Sinking Fund A/F | Compound Amount F/A | Capital Recovery $A / P$ | Present Worth P/A | Gradient Present Worth P/G | Gradient Uniform Series A/G |
| 1 | 1.0900 | 0.9174 | 1.00000 | 1.0000 | 1.09000 | 0.9174 |  |  |
| 2 | 1.1881 | 0.8417 | 0.47847 | 2.0900 | 0.56847 | 1.7591 | 0.8417 | 0.4785 |
| 3 | 1.2950 | 0.7722 | 0.30505 | 3.2781 | 0.39505 | 2.5313 | 2.3860 | 0.9426 |
| 4 | 1.4116 | 0.7084 | 0.21867 | 4.5731 | 0.30867 | 3.2397 | 4.5113 | 1.3925 |
| 5 | 1.5386 | 0.6499 | 0.16709 | 5.9847 | 0.25709 | 3.8897 | 7.1110 | 1.8282 |
| 6 | 1.6771 | 0.5963 | 0.13292 | 7.5233 | 0.22292 | 4.4859 | 10.0924 | 2.2498 |
| 7 | 1.8280 | 0.5470 | 0.10869 | 9.2004 | 0.19869 | 5.0330 | 13.3746 | 2.6574 |
| 8 | 1.9926 | 0.5019 | 0.09067 | 11.0285 | 0.18067 | 5.5348 | 16.8877 | 3.0512 |
| 9 | 2.1719 | 0.4604 | 0.07680 | 13.0210 | 0.16680 | 5.9952 | 20.5711 | 3.4312 |
| 10 | 2.3674 | 0.4224 | 0.06582 | 15.1929 | 0.15582 | 6.4177 | 24.3728 | 3.7978 |
| 11 | 2.5804 | 0.3875 | 0.05695 | 17.5603 | 0.14695 | 6.8052 | 28.2481 | 4.1510 |
| 12 | 2.8127 | 0.3555 | 0.04965 | 20.1407 | 0.13965 | 7.1607 | 32.1590 | 4.4910 |
| 13 | 3.0658 | 0.3262 | 0.04357 | 22.9534 | 0.13357 | 7.4869 | 36.0731 | 4.8182 |
| 14 | 3.3417 | 0.2992 | 0.03843 | 26.0192 | 0.12843 | 7.7862 | 39.9633 | 5.1326 |
| 15 | 3.6425 | 0.2745 | 0.03406 | 29.3609 | 0.12406 | 8.0607 | 43.8069 | 5.4346 |
| 16 | 3.9703 | 0.2519 | 0.03030 | 33.0034 | 0.12030 | 8.3126 | 47.5849 | 5.7245 |
| 17 | 4.3276 | 0.2311 | 0.02705 | 36.9737 | 0.11705 | 8.5436 | 51.2821 | 6.0024 |
| 18 | 4.7171 | 0.2120 | 0.02421 | 41.3013 | 0.11421 | 8.7556 | 54.8860 | 6.2687 |
| 19 | 5.1417 | 0.1945 | 0.02173 | 46.0185 | 0.11173 | 8.9501 | 58.3868 | 6.5236 |
| 20 | 5.6044 | 0.1784 | 0.01955 | 51.1601 | 0.10955 | 9.1285 | 61.7770 | 6.7674 |
| 21 | 6.1088 | 0.1637 | 0.01762 | 56.7645 | 0.10762 | 9.2922 | 65.0509 | 7.0006 |
| 22 | 6.6586 | 0.1502 | 0.01590 | 62.8733 | 0.10590 | 9.4424 | 68.2048 | 7.2232 |
| 23 | 7.2579 | 0.1378 | 0.01438 | 69.5319 | 0.10438 | 9.5802 | 71.2359 | 7.4357 |
| 24 | 7.9111 | 0.1264 | 0.01302 | 76.7898 | 0.10302 | 9.7066 | 74.1433 | 7.6384 |
| 25 | 8.6231 | 0.1160 | 0.01181 | 84.7009 | 0.10181 | 9.8226 | 76.9265 | 7.8316 |
| 26 | 9.3992 | 0.1064 | 0.01072 | 93.3240 | 0.10072 | 9.9290 | 79.5863 | 8.0156 |
| 27 | 10.2451 | 0.0976 | 0.00973 | 102.7231 | 0.09973 | 10.0266 | 82.1241 | 8.1906 |
| 28 | 11.1671 | 0.0895 | 0.00885 | 112.9682 | 0.09885 | 10.1161 | 84.5419 | 8.3571 |
| 29 | 12.1722 | 0.0822 | 0.00806 | 124.1354 | 0.09806 | 10.1983 | 86.8422 | 8.5154 |
| 30 | 13.2677 | 0.0754 | 0.00734 | 136.3075 | 0.09734 | 10.2737 | 89.0280 | 8.6657 |
| 31 | 14.4618 | 0.0691 | 0.00669 | 149.5752 | 0.09669 | 10.3428 | 91.1024 | 8.8083 |
| 32 | 15.7633 | 0.0634 | 0.00610 | 164.0370 | 0.09610 | 10.4062 | 93.0690 | 8.9436 |
| 33 | 17.1820 | 0.0582 | 0.00556 | 179.8003 | 0.09556 | 10.4644 | 94.9314 | 9.0718 |
| 34 | 18.7284 | 0.0534 | 0.00508 | 196.9823 | 0.09508 | 10.5178 | 96.6935 | 9.1933 |
| 35 | 20.4140 | 0.0490 | 0.00464 | 215.7108 | 0.09464 | 10.5668 | 98.3590 | 9.3083 |
| 40 | 31.4094 | 0.0318 | 0.00296 | 337.8824 | 0.09296 | 10.7574 | 105.3762 | 9.7957 |
| 45 | 48.3273 | 0.0207 | 0.00190 | 525.8587 | 0.09190 | 10.8812 | 110.5561 | 10.1603 |
| 50 | 74.3575 | 0.0134 | 0.00123 | 815.0836 | 0.09123 | 10.9617 | 114.3251 | 10.4295 |
| 55 | 114.4083 | 0.0087 | 0.00079 | 1260.09 | 0.09079 | 11.0140 | 117.0362 | 10.6261 |
| 60 | 176.0313 | 0.0057 | 0.00051 | 1944.79 | 0.09051 | 11.0480 | 118.9683 | 10.7683 |
| 65 | 270.8460 | 0.0037 | 0.00033 | 2998.29 | 0.09033 | 11.0701 | 120.3344 | 10.8702 |
| 70 | 416.7301 | 0.0024 | 0.00022 | 4619.22 | 0.09022 | 11.0844 | 121.2942 | 10.9427 |
| 75 | 641.1909 | 0.0016 | 0.00014 | 7113.23 | 0.09014 | 11.0938 | 121.9646 | 10.9940 |
| 80 | 986.5517 | 0.0010 | 0.00009 | 10951 | 0.09009 | 11.0998 | 122.4306 | 11.0299 |
| 85 | 1517.93 | 0.0007 | 0.00006 | 16855 | 0.09006 | 11.1038 | 122.7533 | 11.0551 |
| 90 | 2335.53 | 0.0004 | 0.00004 | 25939 | 0.09004 | 11.1064 | 122.9758 | 11.0726 |
| 95 | 3593.50 | 0.0003 | 0.00003 | 39917 | 0.09003 | 11.1080 | 123.1287 | 11.0847 |
| 96 | 3916.91 | 0.0003 | 0.00002 | 43510 | 0.09002 | 11.1083 | 123.1529 | 11.0866 |
| 98 | 4653.68 | 0.0002 | 0.00002 | 51696 | 0.09002 | 11.1087 | 123.1963 | 11.0900 |
| 100 | 5529.04 | 0.0002 | 0.00002 | 61423 | 0.09002 | 11.1091 | 123.2335 | 11.0930 |


| 10\% |  | TABLE 15 | Discrete Cash Flow: Compound Interest Factors |  |  |  |  | 10\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Single Payments |  | Uniform Series Payments |  |  |  | Arithmetic Gradients |  |
| $n$ | Compound Amount $F / P$ | Present Worth P/F | Sinking Fund A/F | Compound Amount F/A | Capital Recovery A/P | Present Worth P/A | Gradient Present Worth P/G | Gradient Uniform Series A/G |
| 1 | 1.1000 | 0.9091 | 1.00000 | 1.0000 | 1.10000 | 0.9091 |  |  |
| 2 | 1.2100 | 0.8264 | 0.47619 | 2.1000 | 0.57619 | 1.7355 | 0.8264 | 0.4762 |
| 3 | 1.3310 | 0.7513 | 0.30211 | 3.3100 | 0.40211 | 2.4869 | 2.3291 | 0.9366 |
| 4 | 1.4641 | 0.6830 | 0.21547 | 4.6410 | 0.31547 | 3.1699 | 4.3781 | 1.3812 |
| 5 | 1.6105 | 0.6209 | 0.16380 | 6.1051 | 0.26380 | 3.7908 | 6.8618 | 1.8101 |
| 6 | 1.7716 | 0.5645 | 0.12961 | 7.7156 | 0.22961 | 4.3553 | 9.6842 | 2.2236 |
| 7 | 1.9487 | 0.5132 | 0.10541 | 9.4872 | 0.20541 | 4.8684 | 12.7631 | 2.6216 |
| 8 | 2.1436 | 0.4665 | 0.08744 | 11.4359 | 0.18744 | 5.3349 | 16.0287 | 3.0045 |
| 9 | 2.3579 | 0.4241 | 0.07364 | 13.5795 | 0.17364 | 5.7590 | 19.4215 | 3.3724 |
| 10 | 2.5937 | 0.3855 | 0.06275 | 15.9374 | 0.16275 | 6.1446 | 22.8913 | 3.7255 |
| 11 | 2.8531 | 0.3505 | 0.05396 | 18.5312 | 0.15396 | 6.4951 | 26.3963 | 4.0641 |
| 12 | 3.1384 | 0.3186 | 0.04676 | 21.3843 | 0.14676 | 6.8137 | 29.9012 | 4.3884 |
| 13 | 3.4523 | 0.2897 | 0.04078 | 24.5227 | 0.14078 | 7.1034 | 33.3772 | 4.6988 |
| 14 | 3.7975 | 0.2633 | 0.03575 | 27.9750 | 0.13575 | 7.3667 | 36.8005 | 4.9955 |
| 15 | 4.1772 | 0.2394 | 0.03147 | 31.7725 | 0.13147 | 7.6061 | 40.1520 | 5.2789 |
| 16 | 4.5950 | 0.2176 | 0.02782 | 35.9497 | 0.12782 | 7.8237 | 43.4164 | 5.5493 |
| 17 | 5.0545 | 0.1978 | 0.02466 | 40.5447 | 0.12466 | 8.0216 | 46.5819 | 5.8071 |
| 18 | 5.5599 | 0.1799 | 0.02193 | 45.5992 | 0.12193 | 8.2014 | 49.6395 | 6.0526 |
| 19 | 6.1159 | 0.1635 | 0.01955 | 51.1591 | 0.11955 | 8.3649 | 52.5827 | 6.2861 |
| 20 | 6.7275 | 0.1486 | 0.01746 | 57.2750 | 0.11746 | 8.5136 | 55.4069 | 6.5081 |
| 21 | 7.4002 | 0.1351 | 0.01562 | 64.0025 | 0.11562 | 8.6487 | 58.1095 | 6.7189 |
| 22 | 8.1403 | 0.1228 | 0.01401 | 71.4027 | 0.11401 | 8.7715 | 60.6893 | 6.9189 |
| 23 | 8.9543 | 0.1117 | 0.01257 | 79.5430 | 0.11257 | 8.8832 | 63.1462 | 7.1085 |
| 24 | 9.8497 | 0.1015 | 0.01130 | 88.4973 | 0.11130 | 8.9847 | 65.4813 | 7.2881 |
| 25 | 10.8347 | 0.0923 | 0.01017 | 98.3471 | 0.11017 | 9.0770 | 67.6964 | 7.4580 |
| 26 | 11.9182 | 0.0839 | 0.00916 | 109.1818 | 0.10916 | 9.1609 | 69.7940 | 7.6186 |
| 27 | 13.1100 | 0.0763 | 0.00826 | 121.0999 | 0.10826 | 9.2372 | 71.7773 | 7.7704 |
| 28 | 14.4210 | 0.0693 | 0.00745 | 134.2099 | 0.10745 | 9.3066 | 73.6495 | 7.9137 |
| 29 | 15.8631 | 0.0630 | 0.00673 | 148.6309 | 0.10673 | 9.3696 | 75.4146 | 8.0489 |
| 30 | 17.4494 | 0.0573 | 0.00608 | 164.4940 | 0.10608 | 9.4269 | 77.0766 | 8.1762 |
| 31 | 19.1943 | 0.0521 | 0.00550 | 181.9434 | 0.10550 | 9.4790 | 78.6395 | 8.2962 |
| 32 | 21.1138 | 0.0474 | 0.00497 | 201.1378 | 0.10497 | 9.5264 | 80.1078 | 8.4091 |
| 33 | 23.2252 | 0.0431 | 0.00450 | 222.2515 | 0.10450 | 9.5694 | 81.4856 | 8.5152 |
| 34 | 25.5477 | 0.0391 | 0.00407 | 245.4767 | 0.10407 | 9.6086 | 82.7773 | 8.6149 |
| 35 | 28.1024 | 0.0356 | 0.00369 | 271.0244 | 0.10369 | 9.6442 | 83.9872 | 8.7086 |
| 40 | 45.2593 | 0.0221 | 0.00226 | 442.5926 | 0.10226 | 9.7791 | 88.9525 | 9.0962 |
| 45 | 72.8905 | 0.0137 | 0.00139 | 718.9048 | 0.10139 | 9.8628 | 92.4544 | 9.3740 |
| 50 | 117.3909 | 0.0085 | 0.00086 | 1163.91 | 0.10086 | 9.9148 | 94.8889 | 9.5704 |
| 55 | 189.0591 | 0.0053 | 0.00053 | 1880.59 | 0.10053 | 9.9471 | 96.5619 | 9.7075 |
| 60 | 304.4816 | 0.0033 | 0.00033 | 3034.82 | 0.10033 | 9.9672 | 97.7010 | 9.8023 |
| 65 | 490.3707 | 0.0020 | 0.00020 | 4893.71 | 0.10020 | 9.9796 | 98.4705 | 9.8672 |
| 70 | 789.7470 | 0.0013 | 0.00013 | 7887.47 | 0.10013 | 9.9873 | 98.9870 | 9.9113 |
| 75 | 1271.90 | 0.0008 | 0.00008 | 12709 | 0.10008 | 9.9921 | 99.3317 | 9.9410 |
| 80 | 2048.40 | 0.0005 | 0.00005 | 20474 | 0.10005 | 9.9951 | 99.5606 | 9.9609 |
| 85 | 3298.97 | 0.0003 | 0.00003 | 32980 | 0.10003 | 9.9970 | 99.7120 | 9.9742 |
| 90 | 5313.02 | 0.0002 | 0.00002 | 53120 | 0.10002 | 9.9981 | 99.8118 | 9.9831 |
| 95 | 8556.68 | 0.0001 | 0.00001 | 85557 | 0.10001 | 9.9988 | 99.8773 | 9.9889 |
| 96 | 9412.34 | 0.0001 | 0.00001 | 94113 | 0.10001 | 9.9989 | 99.8874 | 9.9898 |
| 98 | 11389 | 0.0001 | 0.00001 |  | 0.10001 | 9.9991 | 99.9052 | 9.9914 |
| 100 | 13781 | 0.0001 | 0.00001 |  | 0.10001 | 9.9993 | 99.9202 | 9.9927 |




