



**NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**DEPARTMENT OF APPLIED CHEMISTRY**  
**END OF FIRST SEMESTER EXAMINATIONS – DECEMBER 2004**  
**PROJECT DEVELOPMENT AND MANAGEMENT – SCH 4210**  
**TIME: 3 HOURS**

**INSTRUCTIONS TO CANDIDATES**

Answer **ANY FIVE (5)** questions from the six (6) provided.  
Each question carries 20 marks.

1. You have been approached by the Bulawayo City Council to help explore the merits/demerits of setting up a plant to produce a local brand of marula drink (mukumbi/mkumbi/nkumbi). Explain how you would go about tackling the following:
- (a) Customer needs analysis
  - (b) Value addition
  - (c) Evaluation of constraints
  - (d) Stakeholder analysis (20 marks)

2. The cash flows for the project in Question 1 are projected to be as follows over the initial 5 years:

| <u>Year</u> | <u>Cash Flow</u> |
|-------------|------------------|
| 0           | (\$40m)          |
| 1           | \$8m             |
| 2           | \$8.5m           |
| 3           | \$15m            |
| 4           | \$15m            |
| 5           | \$10m            |

- (a) If all the initial capital is borrowed at an annual cost of 15%, determine if the project is worthwhile to undertake. (10 marks)
- (b) "Although a project may show negative growth in value it may still need to be implemented". Discuss this statement. Include at least one example in your answer. (10 marks)

3. Consider the following PERT network. The optimistic  $t_o$ , most likely  $t_m$  and pessimistic  $t_p$  time durations are given below (in days).

| Activity | $t_o$ | $t_m$ | $t_p$ |
|----------|-------|-------|-------|
| A        | 1     | 4     | 7     |
| B        | 1     | 2     | 3     |
| C        | 2     | 4     | 6     |
| D        | 1     | 1     | 1     |

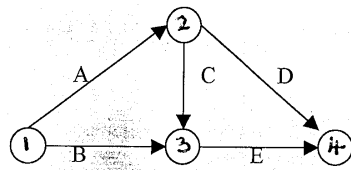
- Calculate the expected duration of the project. (5 marks)
- Calculate the probability of completing the project within 9 days. (5 marks)
- Explain how the duration of a project can be reduced? (5 marks)
- PERT method is more suitable for projects in research and development. Explain. (5 marks)

4.

| Activity | Preceding Activity | Duration (Days) |
|----------|--------------------|-----------------|
| A        | -                  | 3               |
| B        | -                  | 2               |
| C        | -                  | 4               |
| D        | A                  | 5               |
| E        | A                  | 7               |
| F        | A                  | 5               |
| G        | B,D                | 8               |
| H        | C,E                | 6               |

- Draw the Network. (5 marks)
- Find the Critical Paths. (5 marks)
- Find the duration of the project. (2 marks)
- Construct a CPM bar chart for the project. (8 marks)

5. Consider the following project:



| <u>Activity</u> | <u>Duration</u> | <u>Resource</u> |
|-----------------|-----------------|-----------------|
| A               | 2               | 3               |
| B               | 2               | 2               |
| C               | 3               | 2               |
| D               | 4               | 1               |
| E               | 3               | 3               |

- (a) Allocate resources by the series method. (10 marks)
- (b) Sketch the resource allocation profile. (5 marks)
- (c) Level the profile. (5 marks)
6. (a) Discuss the main steps of project management. (10 marks)
- (b) Describe the method of performance analysis for project control. (10 marks)

*End of question Paper!!!*

Appendix Table 1 Discount factors: Present value of \$1 to be received after  $t$  years =  $1/(1+r)^t$

| Number of years | Interest rate per year |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                 | 1%                     | 2%   | 3%   | 4%   | 5%   | 6%   | 7%   | 8%   | 9%   | 10%  | 11%  | 12%  | 13%  | 14%  | 15%  |
| 1               | .990                   | .980 | .971 | .962 | .952 | .943 | .935 | .926 | .917 | .909 | .901 | .893 | .885 | .877 | .870 |
| 2               | .980                   | .961 | .943 | .925 | .907 | .890 | .873 | .857 | .842 | .826 | .812 | .797 | .783 | .769 | .756 |
| 3               | .971                   | .942 | .915 | .889 | .864 | .840 | .816 | .794 | .772 | .751 | .731 | .712 | .693 | .675 | .658 |
| 4               | .961                   | .924 | .888 | .855 | .823 | .792 | .763 | .735 | .708 | .683 | .659 | .636 | .613 | .592 | .572 |
| 5               | .951                   | .906 | .863 | .822 | .784 | .747 | .713 | .681 | .650 | .621 | .593 | .567 | .543 | .519 | .497 |
| 6               | .942                   | .888 | .837 | .790 | .746 | .705 | .666 | .630 | .596 | .564 | .535 | .507 | .480 | .456 | .432 |
| 7               | .933                   | .871 | .813 | .760 | .711 | .665 | .623 | .583 | .547 | .513 | .482 | .452 | .425 | .400 | .376 |
| 8               | .923                   | .853 | .789 | .731 | .677 | .627 | .582 | .540 | .502 | .467 | .434 | .404 | .376 | .351 | .327 |
| 9               | .914                   | .837 | .766 | .703 | .645 | .592 | .544 | .500 | .460 | .424 | .391 | .361 | .333 | .308 | .284 |
| 10              | .905                   | .820 | .744 | .676 | .614 | .558 | .508 | .463 | .422 | .386 | .352 | .322 | .295 | .270 | .247 |
| 11              | .896                   | .804 | .722 | .650 | .585 | .527 | .475 | .429 | .388 | .350 | .317 | .287 | .261 | .237 | .215 |
| 12              | .887                   | .788 | .701 | .625 | .557 | .497 | .444 | .397 | .356 | .319 | .286 | .257 | .231 | .208 | .187 |
| 13              | .879                   | .773 | .681 | .601 | .530 | .469 | .415 | .368 | .326 | .290 | .258 | .229 | .204 | .182 | .163 |
| 14              | .870                   | .758 | .661 | .577 | .505 | .442 | .388 | .340 | .299 | .263 | .232 | .205 | .181 | .160 | .141 |
| 15              | .861                   | .743 | .642 | .555 | .481 | .417 | .362 | .315 | .275 | .239 | .209 | .183 | .160 | .140 | .123 |
| 16              | .853                   | .728 | .623 | .534 | .458 | .394 | .339 | .292 | .252 | .218 | .188 | .163 | .141 | .123 | .107 |
| 17              | .844                   | .714 | .605 | .513 | .436 | .371 | .317 | .270 | .231 | .198 | .170 | .146 | .125 | .108 | .093 |
| 18              | .836                   | .700 | .587 | .494 | .416 | .350 | .296 | .250 | .212 | .180 | .153 | .130 | .111 | .095 | .081 |
| 19              | .828                   | .686 | .570 | .475 | .396 | .331 | .277 | .232 | .194 | .164 | .138 | .116 | .098 | .083 | .070 |
| 20              | .820                   | .673 | .554 | .456 | .377 | .312 | .258 | .215 | .178 | .149 | .124 | .104 | .087 | .073 | .061 |
| 25              | .780                   | .610 | .478 | .375 | .295 | .233 | .184 | .146 | .116 | .092 | .074 | .059 | .047 | .038 | .030 |
| 30              | .742                   | .552 | .412 | .308 | .231 | .174 | .131 | .099 | .075 | .057 | .044 | .033 | .026 | .020 | .015 |

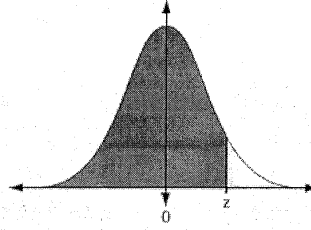
| Number of years | Interest rate per year |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                 | 16%                    | 17%  | 18%  | 19%  | 20%  | 21%  | 22%  | 23%  | 24%  | 25%  | 26%  | 27%  | 28%  | 29%  | 30%  |
| 1               | .862                   | .855 | .847 | .840 | .833 | .826 | .820 | .813 | .806 | .800 | .794 | .787 | .781 | .775 | .769 |
| 2               | .743                   | .731 | .718 | .706 | .694 | .683 | .672 | .661 | .650 | .640 | .630 | .620 | .610 | .601 | .592 |
| 3               | .641                   | .624 | .609 | .593 | .579 | .564 | .551 | .537 | .524 | .512 | .500 | .488 | .477 | .466 | .455 |
| 4               | .552                   | .534 | .516 | .499 | .482 | .467 | .451 | .437 | .423 | .410 | .397 | .384 | .373 | .361 | .350 |
| 5               | .476                   | .456 | .437 | .419 | .402 | .386 | .370 | .355 | .341 | .328 | .315 | .303 | .291 | .280 | .269 |
| 6               | .410                   | .390 | .370 | .352 | .335 | .319 | .303 | .289 | .275 | .262 | .250 | .238 | .227 | .217 | .207 |
| 7               | .354                   | .333 | .314 | .296 | .279 | .263 | .249 | .235 | .222 | .210 | .198 | .188 | .178 | .168 | .159 |
| 8               | .305                   | .285 | .266 | .249 | .233 | .218 | .204 | .191 | .179 | .168 | .157 | .148 | .139 | .130 | .123 |
| 9               | .263                   | .243 | .225 | .209 | .194 | .180 | .167 | .155 | .144 | .134 | .125 | .116 | .108 | .101 | .094 |
| 10              | .227                   | .208 | .191 | .176 | .162 | .149 | .137 | .126 | .116 | .107 | .099 | .092 | .085 | .078 | .073 |
| 11              | .195                   | .178 | .162 | .148 | .135 | .123 | .112 | .103 | .094 | .086 | .079 | .072 | .066 | .061 | .056 |
| 12              | .168                   | .152 | .137 | .124 | .112 | .102 | .092 | .083 | .076 | .069 | .062 | .057 | .052 | .047 | .043 |
| 13              | .145                   | .130 | .116 | .104 | .093 | .084 | .075 | .068 | .061 | .055 | .050 | .045 | .040 | .037 | .033 |
| 14              | .125                   | .111 | .099 | .088 | .078 | .069 | .062 | .055 | .049 | .044 | .039 | .035 | .032 | .028 | .025 |
| 15              | .108                   | .095 | .084 | .074 | .065 | .057 | .051 | .045 | .040 | .035 | .031 | .028 | .025 | .022 | .020 |
| 16              | .093                   | .081 | .071 | .062 | .054 | .047 | .042 | .036 | .032 | .028 | .025 | .022 | .019 | .017 | .015 |
| 17              | .080                   | .069 | .060 | .052 | .045 | .039 | .034 | .030 | .026 | .023 | .020 | .017 | .015 | .013 | .012 |
| 18              | .069                   | .059 | .051 | .044 | .038 | .032 | .028 | .024 | .021 | .018 | .016 | .014 | .012 | .010 | .009 |
| 19              | .060                   | .051 | .043 | .037 | .031 | .027 | .023 | .020 | .017 | .014 | .012 | .011 | .009 | .008 | .007 |
| 20              | .051                   | .043 | .037 | .031 | .026 | .022 | .019 | .016 | .014 | .012 | .010 | .008 | .007 | .006 | .005 |
| 25              | .024                   | .020 | .016 | .013 | .010 | .009 | .007 | .006 | .005 | .004 | .003 | .003 | .002 | .002 | .001 |
| 30              | .012                   | .009 | .007 | .005 | .004 | .003 | .003 | .002 | .002 | .001 | .001 | .001 | .001 | .000 | .000 |

g.: If the interest rate is 10 percent per year, the present value of \$1 received at the end of year 5 is \$0.621.

### z-Score Table

$$z = \frac{x - \mu}{\sigma}$$

z-score formula



| z    | 0.09   | 0.08   | 0.07   | 0.06   | 0.05   | 0.04   | 0.03   | 0.02   | 0.01   | 0.00   |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -3.4 | 0.0002 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 |
| -3.3 | 0.0003 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0005 | 0.0005 | 0.0005 |
| -3.2 | 0.0005 | 0.0005 | 0.0005 | 0.0006 | 0.0006 | 0.0006 | 0.0006 | 0.0006 | 0.0007 | 0.0007 |
| -3.1 | 0.0007 | 0.0007 | 0.0008 | 0.0008 | 0.0008 | 0.0008 | 0.0009 | 0.0009 | 0.0009 | 0.0010 |
| -3.0 | 0.0010 | 0.0010 | 0.0011 | 0.0011 | 0.0011 | 0.0012 | 0.0012 | 0.0013 | 0.0013 | 0.0013 |
| -2.9 | 0.0014 | 0.0014 | 0.0015 | 0.0015 | 0.0016 | 0.0016 | 0.0017 | 0.0018 | 0.0018 | 0.0019 |
| -2.8 | 0.0019 | 0.0020 | 0.0021 | 0.0021 | 0.0022 | 0.0023 | 0.0023 | 0.0024 | 0.0025 | 0.0026 |
| -2.7 | 0.0026 | 0.0027 | 0.0028 | 0.0029 | 0.0030 | 0.0031 | 0.0032 | 0.0033 | 0.0034 | 0.0035 |
| -2.6 | 0.0036 | 0.0037 | 0.0038 | 0.0039 | 0.0040 | 0.0041 | 0.0043 | 0.0044 | 0.0045 | 0.0047 |
| -2.5 | 0.0048 | 0.0049 | 0.0051 | 0.0052 | 0.0054 | 0.0055 | 0.0057 | 0.0059 | 0.0060 | 0.0062 |
| -2.4 | 0.0064 | 0.0066 | 0.0068 | 0.0069 | 0.0071 | 0.0073 | 0.0075 | 0.0078 | 0.0080 | 0.0082 |
| -2.3 | 0.0084 | 0.0087 | 0.0089 | 0.0091 | 0.0094 | 0.0096 | 0.0099 | 0.0102 | 0.0104 | 0.0107 |
| -2.2 | 0.0110 | 0.0113 | 0.0116 | 0.0119 | 0.0122 | 0.0125 | 0.0129 | 0.0132 | 0.0136 | 0.0139 |
| -2.1 | 0.0143 | 0.0146 | 0.0150 | 0.0154 | 0.0158 | 0.0162 | 0.0166 | 0.0170 | 0.0174 | 0.0179 |
| -2.0 | 0.0183 | 0.0188 | 0.0192 | 0.0197 | 0.0202 | 0.0207 | 0.0212 | 0.0217 | 0.0222 | 0.0228 |
| -1.9 | 0.0233 | 0.0239 | 0.0244 | 0.0250 | 0.0256 | 0.0262 | 0.0268 | 0.0274 | 0.0281 | 0.0287 |
| -1.8 | 0.0294 | 0.0301 | 0.0307 | 0.0314 | 0.0322 | 0.0329 | 0.0336 | 0.0344 | 0.0351 | 0.0359 |
| -1.7 | 0.0367 | 0.0375 | 0.0384 | 0.0392 | 0.0401 | 0.0409 | 0.0418 | 0.0427 | 0.0436 | 0.0446 |
| -1.6 | 0.0455 | 0.0465 | 0.0475 | 0.0485 | 0.0495 | 0.0505 | 0.0516 | 0.0526 | 0.0537 | 0.0548 |
| -1.5 | 0.0559 | 0.0571 | 0.0582 | 0.0594 | 0.0606 | 0.0618 | 0.0630 | 0.0643 | 0.0655 | 0.0668 |
| -1.4 | 0.0681 | 0.0694 | 0.0708 | 0.0721 | 0.0735 | 0.0749 | 0.0764 | 0.0778 | 0.0793 | 0.0808 |
| -1.3 | 0.0823 | 0.0838 | 0.0853 | 0.0869 | 0.0885 | 0.0901 | 0.0918 | 0.0934 | 0.0951 | 0.0968 |
| -1.2 | 0.0985 | 0.1003 | 0.1020 | 0.1038 | 0.1056 | 0.1075 | 0.1093 | 0.1112 | 0.1131 | 0.1151 |
| -1.1 | 0.1170 | 0.1190 | 0.1210 | 0.1230 | 0.1251 | 0.1271 | 0.1292 | 0.1314 | 0.1335 | 0.1357 |
| -1.0 | 0.1379 | 0.1401 | 0.1423 | 0.1446 | 0.1469 | 0.1492 | 0.1515 | 0.1539 | 0.1562 | 0.1587 |
| -0.9 | 0.1611 | 0.1635 | 0.1660 | 0.1685 | 0.1711 | 0.1736 | 0.1762 | 0.1788 | 0.1814 | 0.1841 |
| -0.8 | 0.1867 | 0.1894 | 0.1922 | 0.1949 | 0.1977 | 0.2005 | 0.2033 | 0.2061 | 0.2090 | 0.2119 |
| -0.7 | 0.2148 | 0.2177 | 0.2206 | 0.2236 | 0.2266 | 0.2296 | 0.2327 | 0.2358 | 0.2389 | 0.2420 |
| -0.6 | 0.2451 | 0.2483 | 0.2514 | 0.2546 | 0.2578 | 0.2611 | 0.2643 | 0.2676 | 0.2709 | 0.2743 |
| -0.5 | 0.2776 | 0.2810 | 0.2843 | 0.2877 | 0.2912 | 0.2946 | 0.2981 | 0.3015 | 0.3050 | 0.3085 |
| -0.4 | 0.3121 | 0.3156 | 0.3192 | 0.3228 | 0.3264 | 0.3300 | 0.3336 | 0.3372 | 0.3409 | 0.3446 |
| -0.3 | 0.3483 | 0.3520 | 0.3557 | 0.3594 | 0.3632 | 0.3669 | 0.3707 | 0.3745 | 0.3783 | 0.3821 |
| -0.2 | 0.3859 | 0.3897 | 0.3936 | 0.3974 | 0.4013 | 0.4052 | 0.4090 | 0.4129 | 0.4168 | 0.4207 |
| -0.1 | 0.4247 | 0.4286 | 0.4325 | 0.4364 | 0.4404 | 0.4443 | 0.4483 | 0.4522 | 0.4562 | 0.4602 |
| -0.0 | 0.4641 | 0.4681 | 0.4721 | 0.4761 | 0.4801 | 0.4840 | 0.4880 | 0.4920 | 0.4960 | 0.5000 |
| z    | 0.00   | 0.01   | 0.02   | 0.03   | 0.04   | 0.05   | 0.06   | 0.07   | 0.08   | 0.09   |

|     |        |        |        |        |        |        |        |        |        |        |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.0 | 0.5000 | 0.5040 | 0.5080 | 0.5120 | 0.5160 | 0.5199 | 0.5239 | 0.5279 | 0.5319 | 0.5359 |
| 0.1 | 0.5398 | 0.5438 | 0.5478 | 0.5517 | 0.5557 | 0.5596 | 0.5636 | 0.5675 | 0.5714 | 0.5753 |
| 0.2 | 0.5793 | 0.5832 | 0.5871 | 0.5910 | 0.5948 | 0.5987 | 0.6026 | 0.6064 | 0.6103 | 0.6141 |
| 0.3 | 0.6179 | 0.6217 | 0.6255 | 0.6293 | 0.6331 | 0.6368 | 0.6406 | 0.6443 | 0.6480 | 0.6517 |
| 0.4 | 0.6554 | 0.6591 | 0.6628 | 0.6664 | 0.6700 | 0.6736 | 0.6772 | 0.6808 | 0.6844 | 0.6879 |
| 0.5 | 0.6915 | 0.6950 | 0.6985 | 0.7019 | 0.7054 | 0.7088 | 0.7123 | 0.7157 | 0.7190 | 0.7224 |
| 0.6 | 0.7257 | 0.7291 | 0.7324 | 0.7357 | 0.7389 | 0.7422 | 0.7454 | 0.7486 | 0.7517 | 0.7549 |
| 0.7 | 0.7580 | 0.7611 | 0.7642 | 0.7673 | 0.7704 | 0.7734 | 0.7764 | 0.7794 | 0.7823 | 0.7852 |
| 0.8 | 0.7881 | 0.7910 | 0.7939 | 0.7967 | 0.7995 | 0.8023 | 0.8051 | 0.8078 | 0.8106 | 0.8133 |
| 0.9 | 0.8159 | 0.8186 | 0.8212 | 0.8238 | 0.8264 | 0.8289 | 0.8315 | 0.8340 | 0.8365 | 0.8389 |
| 1.0 | 0.8413 | 0.8438 | 0.8461 | 0.8485 | 0.8508 | 0.8531 | 0.8554 | 0.8577 | 0.8599 | 0.8621 |
| 1.1 | 0.8643 | 0.8665 | 0.8686 | 0.8708 | 0.8729 | 0.8749 | 0.8770 | 0.8790 | 0.8810 | 0.8830 |
| 1.2 | 0.8849 | 0.8869 | 0.8888 | 0.8907 | 0.8925 | 0.8944 | 0.8962 | 0.8980 | 0.8997 | 0.9015 |
| 1.3 | 0.9032 | 0.9049 | 0.9066 | 0.9082 | 0.9099 | 0.9115 | 0.9131 | 0.9147 | 0.9162 | 0.9177 |
| 1.4 | 0.9192 | 0.9207 | 0.9222 | 0.9236 | 0.9251 | 0.9265 | 0.9279 | 0.9292 | 0.9306 | 0.9319 |
| 1.5 | 0.9332 | 0.9345 | 0.9357 | 0.9370 | 0.9382 | 0.9394 | 0.9406 | 0.9418 | 0.9429 | 0.9441 |
| 1.6 | 0.9452 | 0.9463 | 0.9474 | 0.9484 | 0.9495 | 0.9505 | 0.9515 | 0.9525 | 0.9535 | 0.9545 |
| 1.7 | 0.9554 | 0.9564 | 0.9573 | 0.9582 | 0.9591 | 0.9599 | 0.9608 | 0.9616 | 0.9625 | 0.9633 |
| 1.8 | 0.9641 | 0.9649 | 0.9656 | 0.9664 | 0.9671 | 0.9678 | 0.9686 | 0.9693 | 0.9699 | 0.9706 |
| 1.9 | 0.9713 | 0.9719 | 0.9726 | 0.9732 | 0.9738 | 0.9744 | 0.9750 | 0.9756 | 0.9761 | 0.9767 |
| 2.0 | 0.9772 | 0.9778 | 0.9783 | 0.9788 | 0.9793 | 0.9798 | 0.9803 | 0.9808 | 0.9812 | 0.9817 |
| 2.1 | 0.9821 | 0.9826 | 0.9830 | 0.9834 | 0.9838 | 0.9842 | 0.9846 | 0.9850 | 0.9854 | 0.9857 |
| 2.2 | 0.9861 | 0.9864 | 0.9868 | 0.9871 | 0.9875 | 0.9878 | 0.9881 | 0.9884 | 0.9887 | 0.9890 |
| 2.3 | 0.9893 | 0.9896 | 0.9898 | 0.9901 | 0.9904 | 0.9906 | 0.9909 | 0.9911 | 0.9913 | 0.9916 |
| 2.4 | 0.9918 | 0.9920 | 0.9922 | 0.9925 | 0.9927 | 0.9929 | 0.9931 | 0.9932 | 0.9934 | 0.9936 |
| 2.5 | 0.9938 | 0.9940 | 0.9941 | 0.9943 | 0.9945 | 0.9946 | 0.9948 | 0.9949 | 0.9951 | 0.9952 |
| 2.6 | 0.9953 | 0.9955 | 0.9956 | 0.9957 | 0.9959 | 0.9960 | 0.9961 | 0.9962 | 0.9963 | 0.9964 |
| 2.7 | 0.9965 | 0.9966 | 0.9967 | 0.9968 | 0.9969 | 0.9970 | 0.9971 | 0.9972 | 0.9973 | 0.9974 |
| 2.8 | 0.9974 | 0.9975 | 0.9976 | 0.9977 | 0.9977 | 0.9978 | 0.9979 | 0.9979 | 0.9980 | 0.9981 |
| 2.9 | 0.9981 | 0.9982 | 0.9982 | 0.9983 | 0.9984 | 0.9984 | 0.9985 | 0.9985 | 0.9986 | 0.9986 |
| 3.0 | 0.9987 | 0.9987 | 0.9987 | 0.9988 | 0.9988 | 0.9989 | 0.9989 | 0.9989 | 0.9990 | 0.9990 |
| 3.1 | 0.9990 | 0.9991 | 0.9991 | 0.9991 | 0.9992 | 0.9992 | 0.9992 | 0.9992 | 0.9993 | 0.9993 |
| 3.2 | 0.9993 | 0.9993 | 0.9994 | 0.9994 | 0.9994 | 0.9994 | 0.9994 | 0.9995 | 0.9995 | 0.9995 |
| 3.3 | 0.9995 | 0.9995 | 0.9995 | 0.9996 | 0.9996 | 0.9996 | 0.9996 | 0.9996 | 0.9996 | 0.9997 |
| 3.4 | 0.9997 | 0.9997 | 0.9997 | 0.9997 | 0.9997 | 0.9997 | 0.9997 | 0.9997 | 0.9997 | 0.9998 |