

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE — APRIL, 2018**

PROJECT MANAGEMENT AND SOFTWARE ENGINEERING

[Time : 3 hours

(Maximum marks : 100)

PART — A

(Maximum marks : 10)

- | | Marks |
|---|------------|
| I Answer <i>all</i> questions in one or two sentences. Each question carries 2 marks. | |
| 1. Write the outcome of requirement analysis. | |
| 2. List two characteristics of a SRS document. | |
| 3. List the outputs of Software Project Planning activity. | |
| 4. Define unit testing. | |
| 5. What is CMMI stands for ? | (5×2 = 10) |

PART — B

(Maximum marks : 30)

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| II Answer any <i>five</i> of the following questions. Each question carries 6 marks. | |
| 1. Describe Phases of software development. | |
| 2. Explain Feasibility Study Phase. | |
| 3. Explain detailed Requirements in the Structure of a Requirements Document. | |
| 4. Explain Project Scheduling and Staffing. | |
| 5. Explain Incremental Coding Process. | |
| 6. Explain Error, Fault and Failure. | |
| 7. Describe the necessity of Configuration Management. | (5×6 = 30) |

PART -- C

(Maximum marks : 60)

(Answer one full question from each unit. Each full question carries 15 marks.)

UNIT -- I

III Compare Classical waterfall model and Spiral model. 15

OR

IV (a) Short notes on Iterative, prototyping models 8

(b) Describe Software Process. 7

UNIT -- II

V (a) Explain Data Flow Diagrams. 9

(b) Describe any two Complexity Metrics for Function Oriented Design. 6

OR

VI (a) Describe two approaches of detailed design 8

(b) Explain Components of an SRS. 7

UNIT -- III

VII (a) Explain the programming practices to make the code easier to read and minimize errors. 8

(b) Explain briefly about White Box Testing. 7

OR

VIII (a) Write Short notes on

(i) Equivalence Class Partitioning. 8

(ii) Boundary Value Analysis. 7

(b) How a programmer manage Source Code Control and Build.

UNIT -- IV

IX (a) Explain one Project Estimation technique. 8

(b) Describe change management. 7

OR

X Explain Project Risk Assessment and Risk Control. 15