

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 *all* 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)

II Answer any *five* 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.

(ii) Boundary Value Analysis. 8

(b) How a programmer manage Source Code Control and Build. 7

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