TED (15) -5132
(Revision- 2015)

A20-00341

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DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE – APRIL -2020.

PROJECT MANAGEMENT AND SOFTWARE ENGINEERING

(Maximum Marks : 75) [Time : 2.15 hours]

PART–A

Marks

I. Answer **any three** questions in one or two sentences. Each question carries 2 marks.

1. State the needs of software engineering.
2. List the advantage of structured programming.
3. Is it necessary to have a greater coupling rate in software design. Comment on your opinion.
4. What is unit testing.
5. Define fault. (3x2=6)

PART - B

II Answer **any four** of the following questions . Each question carries 6 marks.

1. How to select a suitable life cycle model for a specific project?
2. What are the characteristics of a good software design?
3. List the advantages of object oriented design.
4. What are the steps in code Inspection during software testing.
5. Briefly explain test case and test plan.
6. Explain change management.
7. How to manage evolving code in software development.

[4x6 =24]

PART - C

(Answer **any of the three units** from the following. Each full question carries 15 marks)

UNIT I

III (a) Compare classical waterfall and spiral model. (10)

(b) What are the advantages of prototyping model? (5)

OR

IV (a) Describe phases of software development life cycle. (9)

(b) Explain agile life cycle model. (6)

UNIT- II

V (a) What is the role of software architecture in software engineering? (7)

(b) Explain DFD with examples. (8)

OR

VI (a) What are the activities performed in project planning? (8)

(b) Explain the characteristics of a good SRS? (7)

UNIT- III

VII (a) Briefly explain the following in black box testing.

(i) Equivalence class partitioning.

(ii)Boundary value analysis. (8)

(b) What is the need for software organizations to develop their own coding standards and guidelines? (7)

OR

VIII (a) Explain the terms (i) Error (ii)Failure (iii) Test oracle (iv)Test harness (8)

(b) Explain the method for white box testing. (7)

UNIT – IV

IX Explain CMMI. (15)

OR

X (a) Describe configuration management. (7)

(b) Explain the steps to handle the risk involved in software development process. (8)

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