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(REVISION — 2015)

Reg. No. ....

Signature ....

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ MANAGEMENT/COMMERCIAL PRACTICE — OCTOBER, 2019

PROJECT MANAGEMENT & 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. Define Software Process.

2. List any two advantages of Object Oriented design.

3. State the purpose of Requirements Validation.

4. Define test case.

5. List two resource management activities.

(5 × 2 = 10)

PART — B

(Maximum marks : 30)

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

1. Explain spiral life cycle model.

2. Summarize the desirable characteristics of an SRS.

3. Explain Data Flow Diagrams.

4. Write notes on structured programming.

5. Explain different levels of testing.

6. Describe various measures used in software project size estimation.

7. Explain the activities in software quality management.

(5 × 6 = 30)

[175]

[P.T.O.

Marks

PART — C

(Maximum marks : 60)

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

Unit — I

III (a) Describe the phases of software development.   8

     (b) Explain classical Waterfall model and its limitations.   7

Or

IV (a) Explain software engineering and its importance.   8

     (b) Describe Agile software development model.   7

Unit — II

V (a) Explain Requirement process.   8

    (b) Distinguish between Cohesion and Coupling.   7

Or

VI (a) Explain the general structure of an SRS document.   8

     (b) Write notes on Function Oriented Design.   7

Unit — III

VII (a) Describe the method of incrementally developing code.   8

     (b) Summarize the stages of Code Inspection.   7

Or

VIII (a) Write notes on source code control.   8

      (b) Explain equivalence class partitioning with an example.   7

Unit — IV

IX (a) Explain software project management framework.   8

    (b) Describe about Configuration Management.   7

Or

X (a) Describe the steps involved in Risk Management.   8

    (b) Explain the various capability levels in CMMI.   7

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