

TED (15) -5132
(Revision -2015)

N20-08979

Reg.No.....
Signature.

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE – NOVEMBER -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. Define software engineering.
2. List two examples for non-functional requirements.
3. List any two complexify metrics for OOD.
4. Define unit testing.
5. Define Risk.

(3x2=6)

PART - B

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

1. Write short notes on the phases of software development.
2. Explain the agile lifecycle model.
3. Discuss the difference between object-oriented and function-oriented design.
4. Discuss various design concepts.
5. Explain error, fault and failure.
6. Explain the black box testing.
7. Describe the necessity of Configuration Management.

[4x6 =24]

PART - C

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

UNIT I

III (a) Discuss the advantages and disadvantages of waterfall model. (8)

(b) Describe Software Process. (7)

OR

- IV** (a) Explain spiral model and its advantages. (8)
(b) Explain the importance of software engineering. (7)

UNIT- II

- V** (a) Discuss the value of a good SRS. (8)
(b) Explain Data Flow diagram with suitable example. (7)

OR

- VI** (a) Explain the desirable characteristics of an SRS. (8)
(b) Write short notes on cohesion and coupling. (7)

UNIT- III

- VII** (a) Explain incremental coding and test-driven development process. (8)
(b) Write short notes on unit testing. (7)

OR

- VIII** (a) Explain testing process. (8)
(b) How a programmer manage Source Code Control and Build. (7)

UNIT – IV

- IX** (a) Describe about Resource Management. (9)
(b) Explain change management. (6)

OR

- X** (a) Explain different levels of CMMI. (10)
(b) Describe various approaches used in software project effort estimation. (5)
