



**C20-CM-AIM-CCB-
CCN-503/CAI-502**

7637

**BOARD DIPLOMA EXAMINATION, (C-20)
OCTOBER/NOVEMBER—2024
DCME – FIFTH SEMESTER EXAMINATION
SOFTWARE ENGINEERING**

Time : 3 Hours]

[Total Marks : 80

PART—A

3×10=30

- Instructions :** (1) Answer **all** questions.
(2) Each question carries **three** marks.
(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. What is data structure oriented design?
2. Write the metrics for project size estimation.
3. What is risk assessment?
4. List the three important contents of the SRS document.
5. List the three types of coupling.
6. Write any three differences between Function and Object oriented designs.
7. Write any three characteristics of a good user interface.
8. Write about software documentation and testing.
9. What are stubs and drivers?
10. Define SEI capability maturity model.

PART—B

8×5=40

- Instructions :** (1) Answer **all** questions.
(2) Each question carries **eight** marks.
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. (a) Explain about iterative waterfall model.

(OR)

(b) Explain about spiral model.

12. (a) Explain the responsibilities of a software project manager.

(OR)

(b) Explain the work break down structures, activity networks and critical path method in project scheduling.

13. (a) Explain about requirements gathering and analysis.

(OR)

(b) Explain requirement traceability.

14. (a) Write the goals of UML and the role of UML in object oriented design.

(OR)

(b) Explain about sequence and collaboration diagrams.

15. (a) Explain static and dynamic analysis tools.

(OR)

(b) Explain performance testing in software testing.

PART—C

10×1=10

- Instructions :** (1) Answer the following question.
(2) The question carries **ten** marks.
(3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.

- 16.** Explain the purpose of class diagram by drawing class diagram for library management system. Explain whether it is prefilling the class diagram purpose.

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