



C14-CM/IT-502

4625

**BOARD DIPLOMA EXAMINATION, (C-14)**  
**OCT/NOV—2018**  
**DCME—FIFTH SEMESTER EXAMINATION**  
**SOFTWARE ENGINEERING**

Time : 3 hours ]

[ Total Marks : 80

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**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. Write about the solution to the Software crisis.
2. State the need for SPMP Document.
3. Define Critical task and Critical Path in scheduling.
4. Write-short note on Risk assessment.
5. What is anomaly in requirements?
6. Write about traceability.
7. What are the various coding standards?
8. Differentiate between verification and validation.

- \* 9. List three debugging approaches.
10. Write-short note an software reliability metrics.

**PART—B**

10×5=50

**Instructions** : (1) Answer *any five* questions.

(2) Each question carries **ten** marks.

(3) The answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. (a) Explain Data Flow-Oriented Design with an example.  
(b) Explain Spiral Model with appropriate Flowchart.
12. (a) Discuss about Heuristic technique for Project estimation.  
(b) Explain the Gantt chart representation of scheduling.
13. (a) Discuss about the Putnam's work to determine the staffing requirement of software project.  
(b) Explain how to identify Risk. Explain any two main categories of Risks.
14. (a) Explain functional requirements in SRS document.  
(b) Explain any four characteristics of a good SRS document.
15. (a) Discuss about important differences between Function oriented and Object oriented Designs.  
(b) Explain any four characteristics of a good User interface.
16. What is coupling? Classify and explain different types of couplings.
17. (a) Discuss about Code Walk-Throughs technique for review of Coding.  
(b) Explain Dynamic program analysis tools.
- \* 18. (a) Explain advantages and disadvantages of statistical testing.  
(b) Define Software Quality. Explain any three quality factors of a software product.

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