



C16-CM-403

**6432**

**BOARD DIPLOMA EXAMINATION, (C-16)  
AUGUST/SEPTEMBER—2021  
DCME - FOURTH 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 the software crisis? What is the solution for it?
2. Who is a good software engineer?
3. List three project estimation techniques.
4. List the metrics of protect size estimation.
5. What are the characteristics of a good SRS document?
6. Write about traceability of requirements.
7. List the characteristics of a good user interface.
8. Write any three types of Integration testing approaches.
9. What are the various coding standards?
10. List various reliability metrics.

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## PART—B

10×5=50

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

- 11.** Explain the following terms :  
(a) Control flow based design  
(b) Object oriented design
- 12.** Explain about Norden's work and Putnam's work.
- 13.** Explain (a) work break down structure, (b) activity networks and (c) critical path method.
- 14.** Explain requirement gathering and analysis.
- 15.** Explain the classification of cohesion and coupling.
- 16.** Explain unit testing and performance testing.
- 17.** Write about the following program analysis tools :  
(a) Static analysis tools  
(b) Dynamic analysis tools
- 18.** Explain SEI capability maturity model.

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