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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.

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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