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BOARD DIPLOMA EXAMINATION, (C-16)

JANUARY/FEBRUARY—2022

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. Distinguish between program and software.

2. List the job responsibilities of a software project manager.

3. What is the need of SPMP document?

4. Write a short note on analytical estimation technique.

5. What is staffing?

6. List any three problems that arise in bad SRS document.

7. Define coupling.

8. List any three differences between function-oriented and object-oriented designs.

9. Distinguish between verification and validation.

10. Define statistical testing.

PART—B

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. *(a)* Explain about data structure-oriented design. 5

(b) Explain about prototyping model. 5

12. *(a)* Explain about lines of code. 5

(b) Explain about Norden's work. 5

13. *(a)* Explain about Gantt charts. 5

(b) Explain about risk containment. 5

14. Explain the characteristics of a good SRS document. 10

15. *(a)* Explain any two types of user interfaces. 5

(b) Explain about performance testing. 5

16. Explain about various types of cohesion. 10

17. Explain about white-box testing and black-box testing. 10

18. Explain about the reliability metric. 10

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