C16–CM–**403**

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BOARD DIPLOMA EXAMINATION, (C–16)

SEPTEMBER/OCTOBER - 2020

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 software engineering? State its impact.

2. What are the responsibilities of a software project manager?

3. List the essential activities of software project planning.

4. Write three essential activities used for risk management.

5. What is a bad SRS document?

6. What are the different ways of gathering information?

7. Define the terms cohesion and coupling.

8. Write about testing.

9. List different debugging approaches.

10. Define statistical testing.

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

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

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

11. Explain the following software life cycle models :

(a) Iterative water tool model

(b) Prototyping model

12. Explain about Gantt charts and PERT charts.

13. Explain about the three project estimation techniques.

14. Explain about functional requirements.

15. Write about the following two approaches of software design :

(a) Function-oriented design

(b) Object-oriented design

16. List the types of user interfaces. Explain about command language-based interface and menu-based interface in detail.

17. Explain about coding standards and guidelines.

18. Explain software quality management system.

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