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BOARD DIPLOMA EXAMINATION, (C–16)
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. Write briefly about data flow oriented design.

2. Write a short note on work breakdown structure.

3. Write about good software engineer.

4. List the different items in SPMP document.

5. List the contents of SRS document.

6. Briefly write about how to gather requirements of a project.

7. What are the differences between GUI and TUI?

8. Define debugging and list various debugging approaches.

9. Write a short note on code inspection.

10. Define software reliability.

PART—B 10×5=50

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

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

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

11. Explain classical waterfall software development life cycle model. 10

12. Explain the risk management in software development. 10

13. *(a)* Explain the metrics for project size estimation. 6

(b) Explain Gantt chart. 4

14. Explain how to document the functional requirements and traceability. 10

15. Explain about integration testing. 10

16. *(a)* Explain two software design approaches. 6

(b) What are the characteristics of good user interface? 4

17. *(a)* Write about white box testing. 5

(b) Write about black box testing. 5

18. Explain reliability growth model to manage metrices. 10

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