C16–CM–**403**

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BOARD DIPLOMA EXAMINATION, (C–16)

MARCH/APRIL—2018

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 are the symptoms of present software crisis?

2. What is meant by the size of a software project?

3. What is scheduling?

4. Write about Norden's work in staffing level estimation.

5. Write the names of three contents in SRS document.

6. Write the three characteristics of good user interface.

7. What is good software design?

8. Write a short note on clean room testing.

9. Do you agree with the statement "System testing can be considered a pure black-box text"? Justify the answer.

10. List any three reliability metrics.

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 spiral model.

12. Explain the following ways of scheduling :

    (a) Gantt charts

    (b) PERT charts

13. *(a)* Explain Putnam's work for staffing level estimation.

    (b) Explain risk identification.

14. Explain about requirements gathering and analysis.

15. *(a)* Differentiate between coupling and cohesion.   4

    (b) Explain any three types of coupling.   6

16. Explain black-box testing.

17. *(a)* Differentiate between verification and validation.

    (b) Explain performance testing.

18. *(a)* Explain reliability growth modeling.

    (b) Explain software quality management system.

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