C09–CM–606A

3739

BOARD DIPLOMA EXAMINATION, (C–09)

OCT/NOV—2013

DCME—SIXTH 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) Answer should be brief and straight to the point and shall not exceed *four* simple sentences.

1. Compare programs vs. software products.

2. List three common types of risks that a typical software project might suffer from.

3. What is scheduling?

4. What is risk assessment?

5. Identify the categories of users of the SRS document and their expectations from SRS document.

6. What are the characteristics of a good SRS document?

7. Distinguish between function-oriented and object-oriented approaches to software design.

8. Compare graphical user interface and text-based user interface.

9. What are coding guidelines?

10. What is software quality?

PART—B

10×5=50

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 classical waterfall model with the help of a neat diagram. 10

12. *(a)* What is LOC? 1

(b) List the important shortcomings of LOC for use as a software size metric. 4

(c) What are the relative advantages of using either the LOC or the function point metric to measure the size of software product? 5

13. *(a)* Explain when to use PERT charts and when to use Gantt charts. 5

(b) List the items that a Software Project Management Plan (SPMP) document should discuss. 5

14. *(a)* What is traceability of requirements and why is it important? 2+2

(b) Explain the requirement analysis and various requirement problems. 3+3

15. *(a)* Explain different types of coupling. 7

(b) How can functional independence be achieved in a good software design? 3

16. *(a)* What is program analysis tool? 4

(b) Explain different types of program analysis tools. 6

17. Explain different integration testing approaches. 10

18. Explain SEI CMM. 10

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