C09–CM–**606** A

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BOARD DIPLOMA EXAMINATION, (C–09)
MARCH/APRIL—2014
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) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. Write about early computer programming.

2. Explain the skills necessary for software project management.

3. Explain how to assess a risk.

4. Explain Delphi cost estimation technique.

5. Explain how to document the functional requirements.

6. Explain 'goals of implementation' in the SRS document.

7. Define cohesion. List any four classes of cohesion.

8. Write any two differences between the function-oriented and object-oriented design.

9. Differentiate verification and validation.

10. Define any two 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. *(a)* Compare and contrast between programs and software products.

(b) Discuss iterative waterfall model with appropriate diagram.

12. *(a)* Explain the function point metric used for project size estimation.

(b) Explain briefly about heuristic techniques.

13. *(a)* Explain PERT chart with a neat sketch.

(b) Explain any two ways in which the individual project teams structured.

14. *(a)* Explain how to identify the functional requirements.

(b) Explain three problems that arise in bad SRS documents.

15. *(a)* Explain four characteristics of good software design.

(b) Explain any four types of couplings.

16. *(a)* Differentiate between GUI and text-based user interfaces.

(b) Explain unit testing with the help of driver and stub modules.

17. *(a)* Explain briefly about code inspection.

(b) Explain any two integration-testing types.

18. *(a)* Discuss the evolution of quality systems.

(b) Write any two differences between ISO 9000 certification and SEI CMM model.

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