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Question Paper Code : 96729

M.C.A. DEGREE EXAMINATION, AUGUST 2011.

Third Semester

DMC 1703 — SOFTWARE ENGINEERING

(Regulation 2007)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What do you mean by agile modeling?
2. Name the various components of a risk.
3. What are the restraining factors in system modeling?
4. List the different approaches of eliciting requirements.
5. Why is software architecture important?
6. What are the golden rules in interface design coined by Mandel?
7. Define performance testing.
8. What is white-box testing?
9. Mention the elements of software configuration management system.
10. What is software safety?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Discuss the various capability levels in CMMI. (6)
- (ii) Explain the incremental process models. (10)

Or

- (b) (i) Describe the phases of the unified process. (6)
- (ii) Explain the empirical estimation models. (10)

12. (a) Describe the different requirement engineering tasks. (16)

Or

(b) (i) Discuss the elements of analysis model. (6)

(ii) Explain the data modeling concepts in detail. (10)

13. (a) Describe the fundamental software design concepts. (16)

Or

(b) (i) Write briefly the taxonomy of architectural styles. (10)

(ii) Discuss the component level design guidelines suggested by Ambler. (6)

14. (a) (i) Explain the issues in a successful software testing strategy. (8)

(ii) Describe the various incremental integration testing techniques. (8)

Or

(b) Describe in detail the basis path testing. (16)

15. (a) Explain the layers of the software configuration management process. (16)

Or

(b) (i) Discuss the activities of software quality assurance. (6)

(ii) Write about the ISO 9001:2000 quality standard. (10)