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Question Paper Code : 71566

M.E. DEGREE EXAMINATION, JUNE/JULY 2013.

Elective

Computer and Communication

NE 9254/CS 972/10244 CCE 51 — SOFTWARE ENGINEERING
METHODOLOGIES

(Common to M.E.—Computer Networking and Engineering and
M.E.—Networking Engineering)

(Regulation 2009/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is software process?
2. What are the contents of project plan?
3. What are the types of requirements?
4. Distinguish between validation and verification.
5. What is the need for object orientation?
6. Why is the documentation so important?
7. What are the issues associated with testing?
8. What is non-functional testing?
9. What is the need for maintenance process?
10. What is the importance of licensing?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Describe the activities of spiral model. (8)
- (ii) What are the types of risks? Explain how you can manage the risks. (8)

Or

- (b) (i) Explain the various phases of waterfall model. List its limitations. (8)
- (ii) Discuss the cost estimation based on the functional point method. (8)

12. (a) (i) Discuss the activities in requirements elicitation process. (8)
(ii) Describe the different architectural styles. (8)

Or

- (b) (i) Explain the various techniques used for capturing the requirements. (8)
(ii) Discuss the various improvement techniques in detail. (8)
13. (a) (i) Compare the object oriented approach with structures approach. (8)
(ii) Discuss the guidelines for writing the program. (8)

Or

- (b) (i) Explain the various features of object oriented systems. (8)
(ii) Explain the standards used for measuring the object oriented system. (8)
14. (a) Write short notes on the following:

- (i) Unit testing
(ii) Acceptance testing. (8+8)

Or

- (b) (i) Discuss the principles of testing in detail. (8)
(ii) Discuss about the automated system testing and the tools used for it. (8)
15. (a) (i) What are the activities involved in the maintenance process? Explain the different techniques used in maintenance process. (8)
(ii) Discuss the ethical issues associated with software development process. (8)

Or

- (b) (i) Discuss the different evaluation approaches. (8)
(ii) Explain the guidelines for measuring the maintenance. (8)