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10/12/13 FN

Reg. No. : 

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**Question Paper Code : 81978**

M.E. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2013.

Elective

Network Engineering

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

(Common to M.E. – Computer Networking/M.E. – Computer and Communication  
and M.E. Computer Networking and 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 limitations of waterfall model?
3. What is the difference between verification and validation?
4. What are the benefits of modularity?
5. Define use case.
6. Distinguish between cohesion and coupling.
7. What are the types of errors?
8. What is acceptance testing?
9. What are the needs of maintenance?
10. Define prediction.

PART B — (5 × 16 = 80 marks)

11. (a) (i) Describe the activities of spiral model with diagram. (8)  
(ii) Discuss the cost estimation based on function points. (8)
- Or
- (b) (i) Explain how do you track the project development. (8)  
(ii) Explain the activities involved in the risk management. (8)

12. (a) (i) Discuss the techniques used for capturing the requirements. (8)  
(ii) Explain the various architectural styles. (8)

Or

- (b) (i) What is modeling? Explain the various notations used in it. (8)  
(ii) Describe the contents of software requirement specification document. (8)

13. (a) (i) Discuss the use case modeling with example. (8)  
(ii) Discuss the procedures and guidelines for writing the programs. (8)

Or

- (b) (i) Discuss the features of object oriented system. (8)  
(ii) Discuss the programming standards in detail. (8)

14. (a) (i) Explain the guidelines for preparing the test plan. (8)  
(ii) Explain the various non-functional testing. (8)

Or

- (b) (i) Explain the testing principles. (8)  
(ii) Explain the various kinds of integration testing. (8)

15. (a) (i) Discuss the evaluation approaches in detail. (8)  
(ii) What are the importances of software certificate? Explain the process involved in getting the license. (8)

Or

- (b) (i) Explain how do you measure the maintenance characteristics. (8)  
(ii) Discuss the guidelines for improving the predictions (8)