

M.E. Second Semester (Computer Science & Infor.Tech.) (New - CGS)
13192 : Software Engineering Testing Reliability : 2 RNME 4

P. Pages : 2

Time : Three Hours



AU - 3440

Max. Marks : 80

1. a) Explain in brief spiral model of software process. 6
b) What are different requirement engineering activities? 7

OR

2. a) What is the purpose of Behavioural models? What are different types of Behavioural models and their uses? 7
b) What different stages are involved in the object oriented design? 6

3. a) List and explain the different Testing principles in the process. 6
b) Differentiate between verification and validation of software model and also explain why validation is a particularly difficult process. 7

OR

4. a) Explain in brief how debugging process is integrated and related with verification and validation activities. 7
b) What is integration testing? Why is it necessary. Explain. 6

5. Explain various software testing techniques. 14

OR

6. a) What is regression testing? Why different test should be repeated after every defect repair. 7
b) What do you understand about validation activity in software testing? Explain. 7

7. a) Explain web based system and debugging process in detail. 7
b) What are the points to be considered for selecting test tools? Describe it. 7

OR

8. a) Describe various software quality factors in detail. 7
b) What is object oriented testing? Explain. 7

9. a) Explain the Weibull distribution in the reliability engineering process. 6
b) What is role of Montecarlo simulation in software engineering? Explain. 7

OR

10. a) What is reliability? What are basic principles of reliability. 6
b) Explain in brief, the general approach to life data analysis and probability plotting. 7
11. a) What is the purpose of load strength inference in reliability. 7
b) Explain in brief: 6
i) Predication modeling. ii) Estimation modeling.

OR

12. a) Explain software reliability model with suitable example. 6
b) What is prediction model? Why usually prediction models are formed prior to the software developments and regular test phases: 7

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