

M.E. Second Semester (Information Technology) (Full Time) (C.G.S.)

**13431 : Elective-II : Software Testing : 2 NMEF 5**

P. Pages : 2

Time : Three Hours



**AW - 3481**

Max. Marks : 80

- Notes :
1. Due credit will be given to neatness and adequate dimensions.
  2. Assume suitable data wherever necessary.
  3. Illustrate your answer necessary with the help of neat sketches.
  4. Use of pen Blue/Black ink/refill only for writing the answer book.

1. a) What do you understand by productivity and quality in software? 7  
b) Describe software testing objectives. 7

**OR**

2. a) Explain the model of testing with neat diagram. 7  
b) Explain the phases in a testers mental life. 7
3. a) Differentiate between testing process and debugging process. Give examples. 6  
b) What is functional testing and structural testing? Explain with an example. 7

**OR**

4. a) Explain the characteristics of a test engineer. 6  
b) What is test database? Explain the role of test database in transaction. 7
5. a) List the different path testing criteria. Explain how this criteria are obtained. 7  
b) What is software reliability? Explain with example. 6

**OR**

6. a) What is integration process? Explain top-down and bottom-up integration process. 6  
b) Explain path predicates and achievable paths. 7
7. Describe the difference in object oriented testing. Hence explain all the topics for testing OO systems. 14

**OR**

8. a) What is loop testing? Why it is crucial in terms of software testing process. 7  
b) Why do integration & system testing assume special importance for an object oriented system. 7

9. a) Explain Test management process to understand the Test Director. 6  
b) Explain how an application can be tested using WinRunner. 7

**OR**

10. a) Explain architecture of silk test. Discuss the four classes to which these methods belongs. 6  
b) What is action driven automation skill. 7  
11. a) What is meant by code optimization? Explain. 7  
b) Describe any four important features of QTP. 6

**OR**

12. a) Explain in detail Java Coding Guidelines. 7  
b) What is test script language and what are its functionalities. 6

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