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

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

P. Pages : 2 | AW - 3752

Time : Three Hours | Max. Marks : 80

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

1. a) What do you mean by bug? Explain bug locality hypothesis and control bug dominance. **7**

b) Describe the process of software testing with its importance. **7**

OR

2. a) Describe software testing objectives. **7**

b) Explain the V-model and in what way it is different from modified V-model. **7**

3. a) What are the stages of testing? Explain regression testing. **7**

b) What do you understand by manual testing? What are its limitations / drawbacks. **6**

OR

4. a) Differentiate between testing process and debugging process. Give examples. **7**

b) What is functional testing and structural testing? Explain with an example. **6**

5. a) List out the points about progression of thinking with reference to achievable and unachievable paths. **7**

b) Explain transaction flow testing techniques. **6**

OR

6. a) What is path sensitization? Explain with example. **6**

b) Compare manual testing with automated software testing. **7**

7. a) Explain why regression testing is necessary & how automated testing tools can assist with this type of testing. **7**

b) Explain a tool class diagram for testing of object oriented system. **7**

OR

8. a) Define condition testing & what types of errors are identified in this type of testing. **7**

	b)	Discuss the primer on object oriented software.	7
9.	a)	What is the role of test data generators in testing object oriented systems?	7
	b)	Describe the important aspect of WinRunner and justify that it is used for functional testing.	6

OR

10.	a)	Explain the test management process to understand the Test Director.	6
	b)	Explain how to use loadrunner to carry out performance testing.	7
11.	a)	What is test script language and what are its functionalities?	6
	b)	Illustrate the use of "time ( )" function to measure the time taken by the program segment. Hence discuss the important aspects of this program.	7

OR

12.		Illustrate the "Clock ( )" function call and the number of ticks in a second is obtained using the parameter CLOCKS_PER_SEC.	13

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