Reg. No.											

Question Paper Code	11840

B.E. / B.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2023
Sixth Semester
Computer Science and Engineering
IT8076 - SOFTWARE TESTING
(Regulations 2017)

Duration: 3 Hours
Max. Marks: 100

PART - A (10 × 2 = 20 Marks)
Answer ALL Questions

		Marks, K-Level, CO
1.	List out the basic objectives of Software Testing.	2,K1,CO1
2.	Distinguish between Verification and Validation.	2,K2,CO1
3.	What Are the Test Cases for Mouse?	2,K1,CO2
4.	Write Test Cases for This Scenario If A Job Fails It Should Get Restarted Again This Should Happen For Three Times If It Fails Again Then It Should Quit.	2,K2,CO2
5.	What is the use of COTS components?	2,K1,CO3
6.	Why it is necessary to perform acceptance testing?	2,K1,CO3
7.	Define Test log.	2,K1,CO5
8.	What is mean by Test Summary Report?	2,K1,CO5
9.	List out the members present in the Review Team.	2,K1,CO6
10.	Classify the skills needed for test automation.	2,K2,CO6

PART - B (5 × 13 = 65 Marks)
Answer ALL Questions

11. a) Explain in detail about the types of defects in various phases of software development. — 13,K2,CO1

OR

b) Short notes on
(i) Precision and accuracy. — 7,K2,CO1
(ii) Verification and validation. — 6,K2,CO1

12. a) Explain about Evaluating Test Adequacy Criteria. — 13,K2,CO2

OR

b) Explain in detail about the Branch testing, Path testing, Data flow testing and Mutation testing white box approaches for designing test case. — 13,K2,CO2

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create

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13. a) (i) Explain about the various types of System Testing and its importance with example. *6,K2,CO3*

(ii) What is regression testing? Outline the issues to be addressed for developing test cases to perform regression testing. *7,K2,CO3*

OR

b) Illustrate and review all types of integration tests with their pros and cons. *13,K2,CO3*

14. a) Compare and contrast the role of debugging goals and policies in testing. *13,K2,CO5*

OR

b) Discuss in detail about Test goals and Policy. *13,K2,CO5*

15. a) Explain the different types of Test defect metrics under Progress metrics based on what they measure and what area they focus on. *13,K2,CO6*

OR

b) Explain in detail about the design and architecture for automation. *13,K2,CO6*

PART - C (1 × 15 = 15 Marks)

16. a) Explain the concepts of test planning in detail. Also mention the way of defining test plan. *15,K2,CO5*

OR

b) Discuss in detail about the Equivalence Class partitioning & Boundary value analysis with your own example. *15,K2,CO2*