Reg. No.

Question Paper Code

11539

B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV/DEC 2022

Fifth Semester

Computer Science and Engineering

(Common to Instrumentation and Control Engineering)

20CSOE905 - SOFTWARE TESTING TECHNIQUES

(Regulations 2020)

Duration: 3 Hours

Max. Marks: 100

PART - A $(10 \times 2 = 20 \text{ Marks})$ Answer ALL Questions

Answer ALL Questions			
1		Marks, K-Level, CO 2,K1,CO1	
1.	Define Software testing.		
2.	What is a defect? Give an example.	2,K2,CO1	
3.	List the advantages of Equivalence class partitioning.	2,K1,CO2	
4.	Discuss about Desk checking.	2,K2,CO2	
5.	What is Alpha and Beta Testing?	2,K2,CO3	
6.	What are the goals of Functional testing?	2,K2,CO3	
7.	Define work breakdown structure.	2,K1,CO5	
8.	What is the role of test lead?	2,K1,CO5	
9.	List the challenges in automation.	2,K1,CO6	
10.	HENNING HENNING TO THE PROPERTY OF THE PROPER	2,K1,CO6	
PART - B (5 × 13 = 65 Marks) Answer ALL Questions			
11.	a) Explain the Testing principles in detail.	13,K2,CO1	
	OR		
	b) (i) Discuss in detail about the testing axioms.	6,K2,CO1	
	(ii) Explain defect classification in detail.	7,K2,CO1	
12.	state transition testing is done.	13,K2,CO2	
	OR	13,K2,CO2	
	b) Explain the various white box techniques with suitable test cases.	13,N2,CO2	

13. a) Explain the different integration testing strategies for procedures and functions with suitable diagrams.

OR

b) Explain the different levels of testing in detail.

13,K2,C03

14. a) Describe the concepts of building a test group.

OR

b) Explain about people and organizational issues in testing.

13,K2,C05

13,K2,C05

15. a) Describe briefly about various types of test automation and scope of 13,K2,C06

15. a) Describe briefly about various types of test automation and scope of ^{13,K2,C06} automation.

OR

b) Explain the various generations of automation and the required skills 13,K2,CO6 for each.

PART - C $(1 \times 15 = 15 \text{ Marks})$

16. a) Define Regression testing. Outline the issues to be addressed for 15,K1,CO4 developing test cases to perform regression testing.

OR

b) Explain the techniques applied for website testing with suitable test 15,K2,CO4 cases.