Question Paper Code	12214

B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV / DEC 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.	Define Test Bed and Test Oracle.	2,K1,CO1
3.	Define code complexity testing .How it is related to testing?	2,K1,CO2
4.	What are the goals of Smart Tester?	2,K1,CO2
5.	Define test harness.	2,K1,CO3
6.	Compare and contrast unit testing and integration testing with example.	2,K2,CO3
7.	Write the WBS elements for testing.	2,K1,CO5
8.	What are the issues in testing object-oriented systems?	2,K2,CO5
9.	List out the members present in the review team.	2,K2,CO6
10.	Define Defect Removal Leverage (DRL).	2,K2,CO6

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

11.	a)	Explain Software Testing principles in detail.	13,K2,CO1
		OR	
	b)	Explain 5 level structures of Testing Maturity Model in detail.	13,K2,CO1
12.	a)	Discuss in detail about the Random testing, Requirement testing and Domain testing with suitable example.	13,K2,CO2
		OR	
	b)	Demonstrate Black Box Test cases using ECP and BVA to test a module for Payroll System.	13,K3,CO2
13.	a)	Discuss in detail about the System and Acceptance Testing Methods.	13,K2,CO3
		OR	
	b)	Explain the different integration testing strategies for procedures and functions with suitable diagram.	13,K2,CO3

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create   ***12214***

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

OR

b) (i) Discuss in detail about the different skills needed by the test specialist. *7,K2,CO5*

(ii) How will you build a test group? Explain it. *6,K2,CO5*

15. a) Describe briefly about architecture, various types of test automation and scope of automation. *13,K2,CO6*

OR

b) 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*

PART - C (1 × 15 = 15 Marks)

16. a) Explain the concepts of test planning in detail. Also mention the ways of defining test plan. *15,K2,CO4*

OR

b) Develop the challenges and issues faced in testing service organization also write how we can eliminate challenges. *15,K2,CO4*