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Question Paper Code

11920

B.E. / B.Tech. - DEGREE EXAMINATIONS, APRIL/MAY 2023

Sixth Semester

Information Technology

(Common to Fifth Semester - Computer Science and Engineering)

20ITEL601 - SOFTWARE TESTING

(Regulations 2020)

Duration: 3 Hours

Max. Marks: 100

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

Answer ALL Questions

		Marks,				
1.	Recall the benefits of Test Maturity Model.	K-Level, CO 2, K1, CO1				
2.	Outline the role of a tester in software development.					
3.	Give an example for compatibility testing and user documentation testing.					
4.	Infer the approaches in white box testing.					
5.	Summarize the need for different levels in testing.					
6.	Show the need for Internationalization testing.					
7.	State the organizational structure of a testing team.					
8.	List the hierarchy of testing group.					
9.	Outline the skills needed for automation.					
10.	Illustrate the requirements of a test tool.					
	PART - B ($5 \times 13 = 65$ Marks) Answer ALL Questions					
11.	a) Paraphrase the seven principles of software testing. OR	13,K2,CO1				
	b) Elaborate defect classes, repository and test design.	13,K2,CO1				
12.	a) Explain equivalence class partitioning and state based testing. OR	13,K2,CO2				
	b) Illustrate the steps involved in white box testing. Explain with example.	an 13,K2,CO2				
13.	a) Explain the steps involved in integration testing with an example.	13,K2,CO3				
K1 -	- Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create	11920				

OR

- b) Compare configuration and compatibility testing with an example for 13, K2,CO3 each.
- 14. a) Describe the components required for test plan in software testing. 13,K2,C04

OR

- b) What is the role of test specialist in software testing? Discuss the 13,K2,C04 skills needed by test specialist.
- 15. a) With a neat sketch explain the design and architecture of automation. 13,K2,CO5

 OR
 - b) Discover the challenges in automation. 13,K2,C05

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

16. a) With an example illustrate the code coverage and control flow 15,K3,C06 graphs.

OR

b) Classify various metrics and measurements used for software testing. 15,K3,C06