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Question Paper Code:R8205

B.E./B.Tech. DEGREE EXAMINATION, NOV 2025

Professional Elective

R21ITV205 – SOFTWARE TESTING AND AUTOMATION

Computer Science and Engineering

(Regulations R2021)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1.	What is difference between white box testing and black box testing?	CO2-App
2.	Compare Unit Testing and Integration Testing?	CO2-App
3.	What are the goals of test planning?	CO1- U
4.	How to identify Resource Requirement in software testing?	CO1- U
5.	What is objective testing in software testing?	CO1- U
6.	What are the two types of path testing in software testing?	CO1- U
7.	Compare Load Testing and Stress Testing?	CO2-App
8.	Compare usability testing and compatibility testing?	CO2-App
9.	What is Automated Software Testing?	CO1- U
10.	How do you automate testing for a web application?	CO1- U

PART – B (5 x 16= 80 Marks)

11.	(a)	Explain about Unit Testing and Integration Testing in Detail?	CO1- U	(16)
		Or		
	(b)	Explain about Unit Testing and Integration Testing in Detail?	CO1- U	(16)

12.	(a)	As a Developer Raja had done the Music Application. He needed to test the application. What are the Goals he needed to test the software and explain how he can test the software by using the goals?	CO2- App	(16)
		Or		

(b) ABC Private corporate limited wishes to do testing with their CO2- App (16)
Mobile Application project they are developed? They needed to schedule testing according to their project. Apply and explain the concept of Scheduling in the project and make detailed schedule to complete the project?

13. (a) Explain in detail about the Bug Life Cycle in detail with CO1- U (16)
necessary illustrations.

Or

(b) Explain about Data Flow Testing with Example in Detail with its CO1- U (16)
Advantages.

14. (a) Consider the scenario to determine the new version of the CO2- App (16)
software adversely hard an impact on response time. Which testing is suitable for this scenario and explain it.

Or

(b) How would you identify the hardware and software for CO2- App (16)
configuration testing and how would you apply website testing?

15. (a) Explain about Selenium WebDriver and it's Getting Started with CO1- U (16)
Test Automation.

Or

(b) Explain about Understanding Testing.xml using Software CO1- U (16)
Testing and Automation.

R8205