PVP 20

Code: 20AM4601D, 20DS4601D

III B.Tech - II Semester – Regular Examinations - APRIL 2025

SOFTWARE TESTING METHODOLOGIES

(Common for AIML & DS)

Duration: 3 hours Max. Marks: 70

Note: 1. This paper contains questions from 5 units of Syllabus. Each unit carries 14 marks and have an internal choice of Questions.
2. All parts of Question must be answered in one place.

BL – Blooms Level CO – Course Outcome

			BL	CO	Max. Marks
		UNIT-I			
1	a)	Discuss the evolution of software testing.	L2	CO1	10 M
	b)	Explain the model for software testing.	L2	CO1	4 M
		OR			
2	a)	Describe the testing principles and their importance.	L2	CO1	7 M
	b)	Explain the phases involved in STLC.	L2	CO1	7 M
		UNIT-II			
3	a)	Apply a procedure to verify High level designs.	L3	CO2	7 M
	b)	Demonstrate the activities required for validation.	L3	CO2	7 M
		OR			
4	a)	Compare and contrast verification and validation.	L3	CO2	7 M

	b)	How would you verify the bugs (bug-Classification) based on SDLC?	L3	CO2	7 M
		UNIT-III			
5	a)	Demonstrate inspection process and benefits of inspection process.	L3	CO3	10 M
	b)	How is scenario-based reading different from checklists? Explain the types of scenario based reading.	L3	CO3	4 M
		OR			
6	a)	Explain the Regression testing, apply Regression testing to produce the quality software.	L3	CO3	7 M
	b)	Compare and contrast Progressive testing and Regressive testing.	L4	CO3	7 M
		UNIT-IV			
7	a)	Explain the various activities performed in the quantitative approach for quality management.	L2	CO3	7 M
	b)	Compare and contrast Quality management and Project management.	L2	CO3	7 M
		OR			
8	a)	Analyze the benefits of investment on quality.	L4	CO3	4 M
	b)	Explain the costs associated with quality.	L2	CO3	3 M
	c)	Compare and contrast quality control, quality assurance, and quality management.	L4	CO3	7 M

UNIT-V					
9	a)	Explain the process involved in TPI model developed to measure the maturity of a test process.	L3	CO4	8 M
	b)	Classify the different levels of TMM with its purpose.	L2	CO4	6 M
OR					
10	a)	Analyze the need for Automation in testing.	L4	CO4	4 M
	b)	Why selection of testing activity tools are needed, discuss the categorization of testing tools elaborate?	L4	CO4	10 M