Code: 19IT4702D

IV B.Tech - I Semester – Regular Examinations - DECEMBER 2022

SOFTWARE TESTING METHODOLOGIES
(INFORMATION TECHNOLOGY)

Duration: 3 hours   Max. Marks: 70

Note: 1. This question paper contains two Parts A and B.
     2. Part-A contains 5 short answer questions. Each Question carries 2 Marks.
     3. Part-B contains 5 essay questions with an internal choice from each unit. Each question carries 12 marks.
     4. All parts of Question paper must be answered in one place.

BL – Blooms Level   CO – Course Outcome

PART – A

		BL	CO
1. a)	Write the model for software testing.	L1	CO1
1. b)	Discuss cyclomatic complexity.	L1	CO2
1. c)	Define regression test problem briefly.	L2	CO1
1. d)	What is the use of software metrics in testing?	L2	CO1
1. e)	Explain the role of automation tools in testing process.	L2	CO4

PART – B

			BL	CO	Max. Marks
UNIT-I						
2	a)	Explain the various software testing principles.	L2	CO1	7 M
	b)	Differentiate Software Testing Vs Exhaustive Software Testing.	L2	CO1	5 M

		OR			
3	a)	Discuss the software testing will ensure the quality of a developed software.	L2	CO1	6 M
	b)	Explain Bug classification based on criticality.	L2	CO1	6 M
		UNIT-II			
4	a)	Discuss in detail the data flow testing strategies.	L2	CO4	6 M
	b)	Define path testing. Explain about control flow graph in detail.	L2	CO1	6 M
		OR			
5		What is white box testing? And Explain different types of White box testing strategies with example.	L1	CO2	12 M
		UNIT-III			
6	a)	Write in detail about functional testing strategies with example.	L2	CO4	6 M
	b)	Explain unit Validation Testing.	L2	CO2	6 M
		OR			
7	a)	What is regression testing? And explain the types in detail.	L2	CO1	6 M
	b)	Explain about user acceptance testing in detail.	L2	CO2	6 M
		UNIT-IV			
8	a)	Discuss in detail about test design and test specification.	L2	CO1	6 M
	b)	Demonstrate the test plan components briefly.	L3	CO3	6 M
		OR			

9	a)	Difference the public and private metrics.	L3	CO3	2 M
	b)	Discuss about size metrics in detail.	L2	CO3	10 M

UNIT-V

10	What are guide lines for automation testing and write the overview of some commercial testing tools?	L1	CO4	12 M

OR

11	a)	Write about Testing Activity Tools and Selection of testing tools in detail.	L2	CO4	8 M
	b)	What is mean by cost incurred in testing tools?	L1	CO4	4 M