PVP 19

Code: 19CS4702C

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

SOFTWARE TESTING METHODOLOGIES
(COMPUTER SCIENCE & ENGINEERING)

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)	Describe Software Testing with example.	L2	CO1
1. b)	Define Blackbox testing.	L1	CO1
1. c)	Identify the need of validation.	L2	CO1
1. d)	Explain various test group hierarchy in software testing.	L2	CO1
1. e)	Explain cost incurred in software testing.	L2	CO1

PART – B

			BL	CO	Max. Marks
UNIT-I					
2	a)	Describe the long-term goals of Software Testing.	L2	CO1	6 M
	b)	Explain software testing life cycle phases.	L2	CO1	6 M
OR					

3	a)	Illustrate the software testing strategies.	L2	CO1	6 M
	b)	Discuss software testing myths and facts.	L2	CO1	6 M
UNIT-II					
4	a)	What is cyclomatic complexity and illustrate the methods to calculate the cyclomatic complexity?	L2	CO1	6 M
	b)	Describe equivalence class testing in software testing.	L2	CO2	6 M
OR					
5	a)	Discuss the need for inspections and technical reviews.	L2	CO2	6 M
	b)	Differentiate white box and black box testing.	L2	CO2	6 M
UNIT-III					
6	a)	Describe about the system testing and acceptance testing.	L2	CO2	6 M
	b)	Illustrate the difference between Unit and Integration testing.	L3	CO2	6 M
OR					
7	a)	Explain the bottom-up and top-down integration testing with suitable example.	L2	CO1	6 M
	b)	Describe various regression testing techniques.	L2	CO2	6 M
UNIT-IV					
8	a)	Describe the test organization in software testing.	L2	CO3	6 M
	b)	What is the test plan and explain with a neat diagram?	L2	CO1	6 M
OR					

9	a)	What is the reason for test suite minimization also explain its benefits.	L2	CO1	6 M
	b)	Describe the test suite prioritization.	L2	CO3	6 M
UNIT-V					
10	a)	Explain the various guidelines for automated testing.	L2	CO1	6 M
	b)	Describe the various costs incurred in Testing tools.	L2	CO1	6 M
OR					
11	a)	Explain in detail about the object-oriented testing.	L2	CO1	6 M
	b)	Explain the overview of the commercial testing tools.	L2	CO1	6 M