

Time: 3Hrs		MODEL QUESTION PAPER			Max Marks:70	
Part – A is Compulsory						
Answer one (01) question from each unit of Part – B						
Answers to any single question or its part shall be written at one place only						
Cognitive Levels(K): K1-Remember;K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create						
Q. No	Question			Marks	Course Outcome	Cog. Level
Part - A				10X1=10M		
1	a	State the goals of software testing.	1	CO1	K1	
	b	What are different states of a bug?	1	CO1	K1	
	c	Classify the bugs based on criticality.	1	CO1	K1	
	d	Differentiate between effective software testing and exhaustive software testing.	1	CO1	K2	
	e	Which type of testing is possible with BVA?	1	CO4	K2	
	f	What are the various phases of TALC?	1	CO3	K1	
	g	What is the significance of ROI Analysis?	1	CO2	K1	
	h	Specify different types of Test Automation Frameworks.	1	CO3	K2	
	I	What is Selenium IDE?	1	CO2	K2	
	j	What the difference is between verify and assert?	1	CO4	K2	
Part - B			4X15 =60M			
UNIT - I						
2	a	State and explain software testing myths and facts.	8	CO1	K2	
	b	V & V diagram is the basis for every type of testing. Comment on this statement.	7	CO3	K4	
(OR)						
3	a	Explain different stages of Software testing life cycle with neat block diagram.	8	CO3	K2	
	b	Discuss briefly the verification and validations activities performed at each stage of Software development life cycle with neat diagram.	7	CO3	K2	
UNIT - II						
4	a	A Program reads three numbers A, B, and C, within the range [1, 50] and prints the largest number. Design test cases for this program using Boundary Value Checking, Robust Testing and Worst-case Testing methods.	8	CO4	K3	
	b	Briefly explain State Table-Based Testing.	7	CO2	K2	
(OR)						
5	a	Write a program for performing the four basic arithmetic operations using switch case statements i) Draw the DD graph for the program ii) Calculate the cyclomatic complexity of the program iii) List all independent paths iv) Design all test cases from independent paths v) Derive all du-paths and dc-paths using data flow testing.	7	CO4	K3	
	b	.Write short notes on i) Data Flow Testing ii) Mutation Testing	8	CO2	K2	

UNIT - III					
6	a	Describe the stages of Test Automation Life Cycle.	7	CO3	K2
	b	Discuss in brief the SWOT analysis of Test Automation.	8	CO3	K4
(OR)					
7	a	Compare and contrast Waterfall Test Automation development model with W-Model	5	CO3	K2
	b	Write short notes on i) Agile Automation Challenges ii) Screen Components	10	CO3	K2
UNIT - IV					
8	a	Explain how to add filters to the name.	5	CO2	K2
	b	Write short notes on i) CSS Selectors ii) Page Objects	10	CO2	K3
(OR)					
9	a	Discuss about the architecture of Selenium.	8	CO2	K2
	b	Explain the rules for automation.	7	CO4	K2