## K. J. Somaiya Institute of Technology, Sion, Mumbai-22 (Autonomous College Affiliated to University of Mumbai)

## Nov - Dec 2024-25

(B. Tech / M. Tech.) Program: Information Technology Scheme: II Regular/Supplementary Examination: LY Semester: VII

Course Code: ITDLC7034 and Course Name: Software Testing and Quality Assurance

Date of Exam: 23 | 11 2024 Duration: 2.39Hours Max. Marks: 60

## Instructions:

(1)All questions are compulsory.

(2)Draw neat diagrams wherever applicable.

(3)Assume suitable data, if necessary.

Q	Question Question	Max. Marks	СО	BT leve
V	Solve any two questions out of three: (05 marks each)	10		
a)	Explain immediate and post-implementation goals of software testing	-	COI	U
b)	Describe state table based testing	20	CO2	-
c)	Explain Test Planning key element of test management		CO <sub>2</sub>	U
Q 2			CO3	U
a)	List and explain guidelines to be followed by selecting a testing tool		001	
b)	Explain Testing in Scrum phases		CO4	U
c)	List and explain software quality factors		CO5	U
Q.3	Solve any two questions out of three. (10 marks each)		CO6	U
a)	Explain software testing life cycle(STLC) in details		601	
b)	Explain BVC testing technique with given example, A program reads an integer number within the range [1,100] and determines whether it is a prime number or not. Design test cases for this program using BVC, robust testing, and worst-case testing methods.		CO1	U
:)	List and explain test plan components in test management			
).4	Solve any two questions out of three. (10 marks each)		CO3	U-
)	Describe Selenium tool in detail		- 4	
)	Explain challenges in testing for web based software		CO4	U
	Explain McCall's quality factors and Criteria		CO5	U
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