

K. J. Somaiya Institute of Technology, Sion, Mumbai-22
(Autonomous College Affiliated to University of Mumbai)
End Semester Exam
Nov – Dec 2023-24

(B.Tech/M.Tech.) Program: Information Technology
Examination: LY Semester: VII

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

Duration: ^{2.5}~~03~~ Hours

Date: 4/12/2023

Max. Marks: 60

Instructions:

- (1) All questions are compulsory.
- (2) Draw neat diagrams wherever applicable.
- (3) Assume suitable data, if necessary.

		Max. Marks	CO	BT level
Q 1	Solve any six questions out of eight:	12		
i)	Explain details of software testing.	02	CO1	2
ii)	Explain long term goals in software testing.	02	CO1	2
iii)	Explain static testing.	02	CO2	1
iv)	Explain Test planning key element in test management.	02	CO3	1
v)	Explain the Guidelines for testing tools of Automation Testing.	02	CO4	2
vi)	Describe traditional software and web-based software	02	CO5	1
vii)	Explain web technology evolution	02	CO5	2
viii)	Explain the task of quality management.	02	CO6	2
Q.2	Solve any four questions out of six.	16		
i)	List and explain goals of software testing	04	CO1	2
ii)	Explain State table based testing.	04	CO2	2
iii)	Explain Personal and Managerial Skills of tester.	04	CO3	2
iv)	Describe JIRA testing tool.	04	CO4	2
v)	Explain Agile Testing Life Cycle.	04	CO5	2
vi)	Describe McCall's quality factors.	04	CO6	2

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B.Tech IT_Sem VII

Subject: Software Testing & Quality Assurance ITDL7034

Q.3	Solve any two questions out of three.	16		
i)	Explain challenges faced in testing for web-based system.	08	CO5	2
ii)	Explain details of selenium testing tool.	08	CO4	2
iii)	Explain life cycle of software testing.	08	CO1	2
Q.4	Solve any two questions out of three.	16		
i)	Explain equivalence class testing technique with given example, A program reads three numbers, A, B, and C, with a range [1, 50] and prints the largest number. Design test cases for this program using equivalence class testing technique.	08	CO2	2
ii)	Explain components of test management.	08	CO3	2
iii)	Explain ISO-9000:2000 quality standards.	08	CO6	2