

MCA.V/01.22.001

Reg.No.

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**B**

**MCA DEGREE FIFTH SEMESTER EXAMINATION, JANUARY 2022**  
**19-381-0521 SOFTWARE TESTING**  
**(Regular/Supplementary)**

Time: 3 Hours

Maximum Marks: 50

**(Answer ANY FIVE questions)**  
**(All questions carry EQUAL marks)**

	QUESTIONS	Marks	CO	BL	PI
1.	<p>Consider the Control Flow Graph given below and answer the following questions:</p> <p>(a) Label all the Predicate Nodes and explain why the selected nodes are Predicate Nodes.</p> <p>(b) Calculate Cyclomatic Complexity using all the three methods</p> <p>Find the basis set of the execution paths</p> <pre> graph TD     1((1)) --&gt; 2((2))     2 --&gt; 3((3))     2 --&gt; 4((4))     3 --&gt; 4     4 --&gt; 5((5))     5 --&gt; 6((6))     5 --&gt; 7((7))     6 --&gt; 7     7 --&gt; 8((8))     7 --&gt; 9((9))     8 --&gt; 9     9 --&gt; 10((10)) </pre>	10	CO2	L4	2.5.1

2.	Describe different types of security testing and usability testing techniques	10	CO3	L2	1.7.1
3.	How will you transform the use cases to test cases? Explain the steps required.	10	CO3	L2	1.7.1
4.	Explain keyword driven frame work and data driven frame work.	10	CO4	L2	1.6.1
5.	Explain life cycle based testing techniques.	10	CO3	L2	1.6.1
6.	List and Explain black box and white box testing techniques.	10	CO1	L2	2.5.1
7.	List and explain any two automation testing tools.	10	CO5	L2	1.6.1

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