

JK Lakshmipat University Jaipur
INSTITUTE OF ENGINEERING AND TECHNOLOGY

End Term Examination, December, 2022
Bachelor in Computer Applications (BCA), Semester -V

Roll No.....

Course Code : Software Quality & Testing (CS1129)

Time: 2 hours

Max. Marks: 30

Instructions to students:

1. Do not write anything other than your roll number on question paper.

Q.1A	With the help of diagram explain the 5 level structure of CMM model and TMM model.	05 (LO 1,2)
Q.1 B	Selenium is used for automatic testing. Explain the annotation mentioned in the below program. <pre>@Test public void Addition() { c= a+b; assertEquals(15,c); System.out.println("This is first @Test annotation method= " +c); } @Test public void Multiplication() { c=a*b; assertEquals(50,c); System.out.println("This is second @Test annotation method= " +c); }</pre>	05 (LO 3,5)
Q.2A	In static unit testing, code is reviewed by applying techniques commonly known as inspection and walkthrough. With the help of suitable example explain the techniques.	05 (LO 3)
Q.2B	Consider a program for the determination of the largest amongst three numbers. Its input is a triple of positive integers (say x,y and z) and values are from interval [1, 300]. Design the boundary value test cases.	05 (LO 4)
Q.3 A	Discuss the common approaches to perform system integration testing. Use suitable example/ diagram to illustrate your answer.	05 (LO 3)
Q.3 B	Software quality factors and software quality criteria are two important components of Software quality assurance. Explain the relationship between software quality factors and software quality criteria.	05 (LO 1,2)