


Name:			
Enrolment No:			
<b>UPES</b> <b>End Semester Examination, May 2024</b>			
<b>Course: Test Automation</b> <b>Program: B. TECH(CSE+DEVOPS-H/NH)</b> <b>Course Code: CSDV3007</b> <b>Instructions:</b> <b>Answer all the questions.</b>		<b>Semester : 6</b> <b>Time : 03 hrs.</b> <b>Max. Marks: 100</b>	
<b>SECTION A</b> <b>(5Qx4M=20Marks)</b>			
S. No.		Marks	CO
Q 1	Depict the phases of Usability Testing.	4	CO1
Q2	Differentiate between Junit & TestNG frameworks.	4	CO2
Q3	Provide the simple Java code to automate the process of opening google.com in the Chrome browser.	4	CO3
Q4	Define Saving in ROI with its formula to calculate.	4	CO3
Q5	In an application, the password length can be between 5-8 characters. Create 4 test cases following the Boundary Value Analysis.	4	CO4
<b>SECTION B</b> <b>(4Qx10M= 40 Marks)</b>			
Q6	Explain the seven principles of software testing with suitable illustrations.	10	CO1
Q7	Discuss the various types of compatibility testing methods with example scenarios.	10	CO1
Q8	Develop a Simple Calculator Web Application using JavaScript. The application gets 2 numbers using 2 textboxes having IDs t1 & t2. On clicking on various buttons ADD, SUB, MUL, and DIV it prints the answer in a third textbox with id "t3". Develop automated test scripts to check the application using TestNG & Selenium.	10	CO3
Q9	<b>Instruction: Answer 9.a OR 9.b</b> a) During which phase/type of testing normally the breakpoint on Automation is achieved? Justify with an example case study. <b>OR</b> b) Sketch and explain the various stages in bug lifecycle stages.	10	CO3

**SECTION-C**  
**(2Qx20M=40 Marks)**

Q10	<p><b>Instruction: Answer 10.a&amp;b&amp;c OR 10.d&amp;e&amp;f</b></p> <p>a) What are Locator Selectors?(5 Marks)</p> <p>b) List the various Selenium Locator Selectors. (5 Marks)</p> <p>c) Write a code to demonstrate any 5 selectors, by traversing across any tutorial side. [Provide the sample html code of the tutorial site along with the Java code] (10 Marks)</p> <p style="text-align: center;"><b>OR</b></p> <p>d) Create a currency calculator application that converts the rupee to the dollar and vice versa. [Assumption 1 dollar = 83.2 rupee] (5 Marks)</p> <p>e) Develop 3 Test Cases using TestNG Framework in Java.(10 Marks)</p> <p>f) Give the TestNG XML file to Exclude(1 test case) or Include(2 test) in TestNG Framework. (5 Marks)</p>	<b>20</b>	<b>CO2</b>
Q11	<p>a) Discuss the Role of Traceability in Software Testing with suitable scenario. (10 Marks)</p> <p>b) Write a code to demonstrate any 5 selectors, by traversing across any tutorial side. [Provide the sample HTML code of the tutorial site along with the Java code] (10 Marks)</p>	<b>20</b>	<b>CO4</b>