

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION- 2025

B.Tech-V Semester (BI)

COURSE CODE (CREDITS): 18B11BI512 (3)

MAX. MARKS: 25

COURSE NAME: Scripting Languages for Bioinformatics

COURSE INSTRUCTORS: Dr. Tiratha Raj Singh

MAX. TIME: 1 Hour 30 Minutes

Note: (a) All questions are compulsory.

(b) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

Q.No	Question	CO	Marks
Q1	Explain the difference between == and === operators in JavaScript with suitable examples.	CO:2	2
Q2	Describe any four data types in JavaScript with suitable examples.	CO:2	2
Q3	What is type coercion (automatic conversion of data types) in JavaScript? Explain with two examples	CO:2	2
Q4	Explain the use of var, let, and const in JavaScript. Give an example where using var may create an error.	CO:3	3
Q5	Write the output of the following code snippet: var x = 5; var y = "5"; document.write(x + y); document.write(" "); document.write(x * y);	CO:3	2
Q6	Write a JavaScript program to calculate the factorial of a given number using a for loop.	CO:3	2
Q7	Write a JavaScript program to create an array of 5 student names and display them using a suitable loop.	CO:3	3
Q8	Explain the concept of events in JavaScript. Write a program that changes the background color of a webpage when a button is clicked.	CO:1-3	4
Q9	Plan a web page using HTML and CSS. This page should be based upon the major events in Java Script. Additionally, use the examples from Q numbers 5, 6 and 8 to be incorporated in this page.	CO:1-4	5