JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST-1 EXAMINATION- 2025

B. Tech-V Semester (IT)

COURSE CODE (CREDITS): 18B11CI511 (3)   **MAX. MARKS:** 15

COURSE NAME: Advanced Java

COURSE INSTRUCTORS: Amol Vasudeva   **MAX. TIME:** 1 Hour

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	Write a java swing program that simulates a traffic light. The program lets the user select one of three lights: red, yellow, or green with JButtons. On selecting a button, an appropriate message with "stop" or "ready" or "go" should be displayed in the text field. Initially, there is no message in the text field.	CO1	3
Q2	Create a web application consisting of an html file index.html and a Servlet called Student.java. The user from the client side sends his/her roll_number, name, and age as parameters to the server. At the server side, the parameters are retrieved by a Servlet called Student.java. Thereafter, the Servlet generates and sends a web-page containing student's details to the client.	CO2	5
Q3	Design a GUI using swings, which consists of two panels as shown in Fig 1. One panel is a collection of two radio buttons and a text field. The second panel is a collection of three check boxes. When the user selects the first radio button (sandwich1), the checkboxes Potato and Tomato are checked and the cost Rs 20 is displayed on the text field. Similarly, if the second radio button (sandwich2) is selected, all the checkboxes are checked and the cost Rs 30 is displayed on the text field. *Fig. 1*	CO1	4
Q4	Define the following terms in 1-2 statements a) Listener b) Event Handler c) Adapter class	CO2	1×3=3