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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATIONS- 2026

B.Tech- VTH Semester (CSE/IT)

COURSE CODE (CREDITS): 18B11CI511

MAX MARKS: 25

COURSE NAME: Advanced Java

COURSE INSTRUCTOR: Dr. Ruchi Verma

MAX. TIME: 1 Hour 30 Min

Note: (a) All questions are compulsory.

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

(c) Use of calculator is not allowed

Q.No	Question	CO	Marks
Q1	Explain Client-Server Architecture with a neat diagram	CO3	2
Q2	What is a Socket? Briefly describe its role in communication	CO4	3
Q3	Write a Java program to establish two-way communication between a client and a server using sockets. Explain the working.	CO3	5
Q4	Differentiate between TCP and UDP protocols.	CO4	2
Q5	Explain the use of DatagramSocket and DatagramPacket classes.	CO3	3
Q6	Explain the Servlet Life Cycle.	CO3	2
Q7	What is a Deployment Descriptor ,web.xml? Why is it used?	CO4	3
Q8	What is session management? Explain the role of cookies	CO4	2
Q9	Explain JSP architecture and its life cycle.	CO3	3