MID TERM EXAMINATION

B.TECH PROGRAMME (UNDER THE AEGIS OF USICT)

VIth Semester, April, 2024

Paper Code: CIE-306T   **Subject: Advanced Java Programming**

Time: 1½ Hrs.   **Max. Marks: 30**

Note: Attempt Q. No. 1 which is compulsory and any two more questions from remaining.

Q. No.	Questions	Max. Marks	CO(s)
Q1 a)	What is the difference between join()and yield() methods in Java?	2	CO1
b)	What is a socket and what does it consists of?	2	CO1
c)	How do you ensure that a Java class complies with the JavaBeans conventions?	2	CO3
d)	What is the difference between HTTP GET and HTTP POST requests.	2	CO2
e)	Explain the "diamond problem" in the context of multiple inheritance. How does Java's approach to inheritance address this issue?	2	CO1
Q2 a)	Why we use Java Bean? How to access the Java Bean class. Write a simple program to demonstrate the Java Bean class.	5	CO3
b)	How to create TCP Connection Between Client-Server in Java using socket? Write a Java program to demonstrate this connection.	5	CO1
Q3 a)	Explain the life cycle of servlet.	5	CO2
b)	Explain Stateful Session and Stateless Session Bean in Java.	5	CO3
Q4 a)	Define Cookies. How Cookie works? Write a simple Java servlet program to create a cookie.	5	CO2
b)	Differentiate between checked and unchecked exceptions. Write a Java Program to demonstrate the concept of user defined exceptions.	5	CO1