October 2025
B.A./B.Sc.
Fifth Semester
CORE – 11
COMPUTER SCIENCE
Course Code: CSC 5.11
(Internet Technologies)

Total Mark: 70   *Pass Mark: 28*
Time: 3 hours

Answer <u>five</u> questions, taking <u>one</u> from each unit.

UNIT–I

1. (a) Write four features of Java.   4
    (b) What are objects and classes in Java? What are the steps to
         create an object in Java?   2+3=5
    (c) Write a Java program demonstrating the use of "this" keyword.
                                                                           5

2. (a) Write the three common ways to declare and initialize an array
         in Java.   6
    (b) Explain arraylist in Java. Write a Java program to loop through
         an arraylist using the for-each loop.   3+5=8

UNIT–II

3. (a) Write three advantages and three disadvantages of JavaScript. 6
    (b) Explain the two ways in which JavaScript can be added to
         HTML with examples each.   8

4. (a) Explain an event in JavaScript with an illustration.   5
    (b) What is event handling and event handler? Explain any one
         mouse event handler with an example program.   4+5=9

UNIT–III

5. (a) What is JDBC? Explain the JDBC architecture with a diagram.
                                                                       1+5=6

(b) Explain all the four types of JDBC drivers with an illustration each. 8

6. (a) Write a program to connect a Java application to a database using JDBC. 10
(b) Explain the callable statement in JDBC with its syntax. 4

UNIT–IV

7. (a) What is JSP? Write three differences between JSP and servlet. 1+3=4
(b) Explain the four major phases of a JSP life cycle with the help of a diagram. 10

8. (a) Explain the three scripting elements in JSP. 3
(b) Write a program demonstrating exception handling in JSP by the elements of page directive. 11

UNIT–V

9. (a) What is JavaBean? Write the five standards of a JavaBean. 1+5=6
(b) Explain getPropertyName() and setPropertyName() with an example program. 8

10. (a) Write three features of JavaBean. 3
(b) What is a JAR file? Write the syntax to create, extract, and update a JAR file. 1+3=4
(c) What is introspection? Explain the three methods used in BeanInfo interface. 1+6=7

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