

2023
B.A./B.Sc.
Fifth Semester
CORE – 11
COMPUTER SCIENCE
Course Code: CSC 5.11
 (Internet Technologies)

Total Mark: 70
Time: 3 hours

Pass Mark: 28

Answer five questions, taking one from each unit.

UNIT-I

1. (a) What is Java? Why do we use Java? Write down five features of Java. 1+2+5=8
 (b) Describe an object in Java. Explain the steps to create an object with an example. 2+4=6
2. (a) What is a method in Java? Explain the syntax used in a Java method. 1+3=4
 (b) What is an arraylist? 2
 (c) Explain the arraylist method and its syntax used to: 2×4=8
 (i) Add item (ii) Access item
 (iii) Change item (iv) Remove item

UNIT-II

3. (a) What is JavaScript (JS)? Write down six features of JavaScript. 1+6=7
 (b) Explain the script tag. What are the ways to add JavaScript to HTML? Give examples. 2+2+3=7
4. (a) List and explain the various data types used in JavaScript. 9
 (b) Explain event in JS with a diagram. Write some examples of an event. How does JS handle an event? 2+1+2=5

UNIT-III

5. (a) List out and explain the various components of JDBC. 4
(b) Explain all the types of JDBC drivers along with their advantages and disadvantages. 10
6. (a) Write a program to connect a Java application to a database using JDBC. 10
(b) Explain the ResultSet interface with an example. 4

UNIT-IV

7. (a) What is JSP? What are the advantages of using JSP? Write a JSP program to print "hello world". 1+3+2=6
(b) Differentiate between servlet and JSP. 4
(c) Write a note on exception handling in JSP. 4
8. (a) Explain the complete life cycle of JSP with diagram. 10
(b) What are JSP scripting elements? Briefly explain the three types of scripting elements. 1+3=4

UNIT-V

9. (a) What is a JavaBean? Write down the five standards of JavaBean. 1+5=6
(b) Explain the getPropertyNames() and setPropertyNames() with an example. 8
10. (a) What do you understand by introspection? 2
(b) What is a JAR file? 2
(c) Explain the following given below with syntax: 2×5=10
(i) Create JAR file (ii) View JAR file
(iii) Extracting JAR file (iv) Update JAR file
(v) Running JAR file