

No. of Printed Pages : 4

Sl. No.

B3.3-R5 : WEB TECHNOLOGIES

DURATION : 03 Hours

MAXIMUM MARKS : 100

Roll No. :

--	--	--	--	--	--

Answer Sheet No. :

--	--	--	--	--	--

Name of Candidate : _____ ; **Signature of Candidate :** _____

INSTRUCTIONS FOR CANDIDATES :

- Carefully read the instructions given on Question Paper, Answer Sheet.
- Question Paper is in English language. Candidate has to answer in English Language only.
- Question paper contains Seven questions. The Question No. 1 is compulsory. Attempt any FOUR Questions from Question No. 2 to 7.
- Parts of the same question should be answered together and in the same sequence.
- Questions are to be answered in the ANSWER SHEET only, supplied with the Question Paper.
- Candidate cannot leave the examination hall/ room without signing on the attendance sheet and handing over his/her Answer Sheet to the Invigilator. Failing in doing so, will amount to disqualification of Candidate in this Module/Paper.
- After receiving the instruction to open the booklet and before answering the questions, the candidate should ensure that the Question Booklet is complete in all respects.

DO NOT OPEN THE QUESTION BOOKLET UNTIL YOU ARE TOLD TO DO SO.

1. (a) What is the utility of a ClassLoader in JAVA ?
 (b) Write the syntax in JAVA to set null value in JDBC PreparedStatement ?
 (c) What are the advantages of Servlet over CGI ?
 (d) What is the use of @scope annotation in Spring ? Give a suitable example.
 (e) What is the front controller of Spring MVC ? Explain with the help of an example.
 (f) What are the restrictions applied to the Java static methods ?
 (g) I. What is overloading ? Can we overload the constructors ? Give the reason to justify your answer.
 II. What is the output of the following Java program ?

```

class Test
{
    public static void main (String args[])
    {
        System.out.println(10 + 20 + "Javatpoint");
        System.out.println("Javatpoint" + 10 + 20);
    }
}

```

(7x4)
2. (a) Write a Java program to compare the two strings.
 (b) What is polymorphism ? Write Java program to demonstrate the polymorphism.
 (c) Write JAVA program to swap two numbers. (5+8+5)
3. (a) What Does Rewriting Mean ? Write advantages and disadvantages of rewriting.
 (b) Explain Session Timeout and Session Tracking in Servlet. How session tracking is achieved using HTTP sessions in servlet.
 (c) What is Servlet Life Cycle ? Explain stages of Servlet Life Cycle. (6+6+6)
4. (a) What are CLOB and BLOB data types in JDBC ?
 (b) What are the differences between ResultSet and RowSet ?
 (c) What is JDBC prepared statement? Write JAVA code to insert records in table emp(name,salary) using JDBC prepared statement. (4+6+8)
5. (a) Explain the Java Server Page Life Cycle.
 (b) Explain with Example HTTP Methods Structure and Deployment in Servlet API. (8+10)
6. (a) What do you mean by Checked Exceptions? Give example.
 (b) How does JSP handle runtime exceptions? Give a suitable example by writing code.
 (c) Write Stream map() function with operation to convert lowercase to uppercase. (4+6+8)
7. (a) Differentiate between Constructor Injection and Setter Injection in Spring.
 (b) Write the utility of Hibernate Query Language. Give the example of clause like From, As, Select, Where, Order By, Group By. (6+12)

- o O o -

SPACE FOR ROUGH WORK

SPACE FOR ROUGH WORK