[This question paper contains 4 printed pages.]

Sr. No. of Question Paper : 781   G   **Your Roll No................**

Unique Paper Code   : 234504

Name of the Paper   : Internet Technologies (CSHT-513)

Name of the Course   : **B.Sc. (H) Computer Science**

Semester   : V

Duration : 3 Hours   Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.

Section A

Attempt **all** *questions from this section.*

1. (a) Write a Java Script code which will greet user according to the current time. (5)

   (b) (i) How does the use of data types in the context of variables differ in Java Script and Java ? (2)

   (ii) Describe the input tag and write the form elements used in Java script. (3)

   (c) What is the difference between `final`, `finally` and `finalize` ? (5)

P.T.O.

(d) What does the following method do ? Give an example of how you can call the method.

```
public class MatchTally
{
    public void  Score(TeamA that, double
points)
    {
        this.score = this.score - points;
        that.score = that.score + points;
    }
    ... // Other related MatchTally methods
```
(5)

(e) What is BeanInfo interface used for ? List the three functions defined by this interface. (2+3)

(f) Describe the various components of JDBC ? (5)

(g) What is the purpose of JSP ? Explain the three types of JSP elements. (5)

Section B

Attempt any **FOUR** *questions from this section.*

2. (a)   (i) Explain alert method of window object in Java script with suitable example. (2)

    (ii) Write the code to set a HTML documents background color to RED using Java Script. (3)

    (b) What is join() method in Java Script ? Explain the use of join() method with the help of an example. (1+4)

3. (a) Write a Java program to merge two sorted list of integers.   (5)

    (b) What are the differences (and/or) similarities between abstract class and an interface ?   (5)

4. (a) Compare and contrast simple and indexed properties using examples.   (5)

    (b)   (i) Why is JAVA known as platform independent language ?   (1)

        (ii) What is the difference between function overloading and function overriding ?   (4)

5. (a) What are the different types of statements in JDBC ?   (5)

    (b) Describe the following code :   (5)

```
Connection
con=DriverManager.getConnection("jdbc:odbc:Myds
n1"," "," ");
String query="Select * from Customers where
CustNumber=?";
PreparedStatement
ps=con.preparedstatement(query);
Ps.setString(1,"123");
Results=ps.executeQuery();
```

6. (a) Illustrate HTTP Request/Response Model with the help of a diagram.   (5)

    (b) Describe various components in the following statement.   (5)

```
<jsp:useBean
id="cartoon"class="com.ora.jsp.beans.motd.Cart
oonBean" />
```

P.T.O.

7. (a) How can the standard action element of JSP be used to set the property of a Java Bean ? Illustrate with the help of a suitable example. (5)

(b) What is the purpose of Custom Tag Library ? Give an example. (5)

(1200)

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