

This question paper contains 4 printed pages]

Roll No.

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S. No. of Question Paper : 6507

Unique Paper Code : 32341501

HC

Name of the Paper : Internet Technologies

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

Semester : V

Duration : 3 Hours

Maximum Marks : 75

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

Section A

Attempt all questions from this section.

1. (a) What are implicit and explicit parameters ? Give an example of each. 4
- (b) Write a JavaScript code to implement dense arrays ? 3
- (c) Write the statement to include a JSTL library in a JSP page. Explain its components. 3

P.T.O.

- (d) What are the functions of the "action" and "method" attributes in the <form> tag of HTML ? 3
- (e) How do you use JavaBean in a JSP page ? What are the different ways of setting bean properties ? Write the statements to set the bean properties in a JSP page in different ways. 5
- (f) Explain the purpose of onMouseOver and onFocus events in Javascript. 2
- (g) What is a Bean Introspection ? Explain the two methods of Bean Introspection. 5
- (h) Write the steps for Java DataBase Connectivity (JDBC). 5
- (i) What is NaN in JavaScript ? Explain. 2
- (j) What is the difference between Array and ArrayList in Java ? 3

Section B

Attempt any *four* questions from this section.

2. (a) Write a JSP program to capture Employee HTML form parameters using HTML request parameters. Display the values using JSTL actions. The form contains fields like Employee Name, Employee ID, Department, Designation and Years of Experience. 5

- (b) Explain the anatomy of a JSP page using a suitable example. 5
3. (a) What is DOM Model in JavaScript ? 5
- (b) Define a user defined nested object "Car" with properties *Make, Model, Year* and *Owner* where *Owner* is a nested object with properties *Name, Age* and *Gender*. 5
4. (a) What are local and global variables ? How does the use of data types in context of variables differ in Java and JavaScript ? 5
- (b) Write a JavaScript code to prompt the user to enter N numbers and print the count of negative numbers, positive numbers and zeros. 5
5. (a) What is the difference between JSP and Servlet ? Briefly explain. 5
- (b) What are custom tags ? Write a Java tag handler class to find the substring of a string. 5
6. (a) What are constrained and bound Bean properties ? Briefly explain. 5

P.T.O.

(b) Write a JDBC program to call a stored procedure named PROC1 with an OUT parameter to display the count of rows in a table. 5

7. (a) Write the difference between clone() and arrayCopy() method of Java with examples. 5

(b) Write a JavaScript code to display current date and time in browser which should keep on updating itself every second. 5

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