

L12 1/12/18
This question paper contains 4 printed pages]

Roll No.

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S. No. of Question Paper : 51

Unique Paper Code : 32341501

I

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) Write a JavaScript code block with the following validations for username and password : 3.
 - (i) If the name or password field is not entered, display an error message showing "You forgot one of the required fields. Try Again".
 - (ii) In case the fields entered do not match the hard coded values, display an error message showing "Enter valid username and password".
 - (iii) If the values entered match, display the message : "Welcome" username.

P.T.O.

(2)

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- (b) What is the difference in the operators "=" and "==" ? Explain with the help of an example. 2
- (c) Write JavaScript code to validate phone number. 3
- (d) Write a program to add 10 numbers to an array list and print the sum of numbers using for each loop. 5
- (e) What is the purpose of Resultset object ? Give an example of Scrollable Resultset showing all the functions. 4
- (f) Describe Bean persistence briefly. How can a Bean be made persistent ? 4
- (g) Explain two methods used to send http request parameters to server and how does the structure of request objects vary in both cases. 4
- (h) What is the difference between include directive & jsp:include ? 3
- (i) What are the advantages of JSP over Pure Servlets ? 3
- (j) Explain the life cycle of JSP. 4

Section B

Attempt any *four* questions from this section.

2. (a) What are the different types of JSTL tags ? Explain each with a suitable example. 5
- (b) Write a JSP program to set Student Bean properties (Name, Age and Grade) from the JSP page. Display these properties using standard JSTL action element. 5
3. (a) Explain MVC Model in context of JSP application design. 5
- (b) Design an HTML form to input the product details(Product name(string having less than 20 characters), product type(Electronics, Sanitary), Price range(1-10000), Warranty(1 or 2)) and check whether all the fields have been filled with valid values, at the time of submitting the form. 5
4. (a) Explain the HTTP request and response message formats in the context of JSP. 5
- (b) Explain the following JavaScript methods with examples : 5
- eval(), parseInt(), join(), substring(), alert().

P.T.O.

5. (a) Write a JavaScript code which will greet user according to Current time. 5
- (b) Write the difference between Accessor and Mutator methods. Define a rectangle class with *one* accessor and *one* mutator method. 5
6. (a) UPDATE the student with RollNo=205 from 'Student' database. 5
- (b) Explain the difference between executeQuery() and executeUpdate() methods with examples. 5
7. (a) Explain the following in terms of Java Beans with the help of an example : 5
 - (i) Constraint property
 - (ii) Indexed property.
- (b) Design a Student Bean using BeanInfo interface with properties Student Name, Roll No., Class, Marks. 5

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