

This question paper contains 7 printed pages]

Roll No.

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S. No. of Question Paper : 6077

Unique Paper Code : 234504

D

Name of the Paper : Internet Technologies

Name of the Course : B.Sc. (Hons.) Computer Science (CSHT-513)

Semester : V

Duration : 3 Hours

Maximum Marks : 75

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

Attempt *all* questions.

Questions from each section should be answered together.

Section A (JavaScript)

1. Write the code to set a HTML document's background color in JavaScript. 2
2. What is the output of the following JavaScript code ? 1

```
<script type="text/javascript">  
  
function x()  
  
{  
  
document.write (2+5+"8");  
  
}  
  
</script>
```

P.T.O.

3. Write a JavaScript code block, which validates a username and password against hard coded values.

If either the name or password field is not entered, display an error message showing "You forgot one of the required fields. Please Try Again".

In case the fields entered do not match the hard coded values, display an error message showing "Please enter valid username and password".

If the values entered match, display the message : "Welcome (username)". 3

4. Write a JavaScript code that repeatedly zooms-in and zooms-out an image on the screen. 5
5. What is the difference in the operators "=" and "===" ? Explain with the help of an example. 3
6. What is the join() method in JavaScript ? Explain the use of join() method with the help of an example. 3

Section B (Java)

1. How can a subclass call a method or a constructor defined in a superclass ? 2
2. What is the difference between "final" and "finally" ? Explain using suitable examples. 2

3. What are accessors and mutators ? Give an example of each. Explain what are immutable classes. 5
4. Write the output of the following code segments : 1+1

(a) `Rectangle box1=new Rectangle(5, 10);`

`Rectangle box2=box1;`

`Rectangle box3=new Rectangle(5, 10);`

`if(box1 == box2)`

`System.out.println("Boxes 1 and 2 are equal");`

`else`

`System.out.println("Boxes 1 and 2 are not equal");`

`if(box1 == box3)`

`System.out.println("Boxes 1 and 3 are equal");`

`else`

`System.out.println("Boxes 1 and 3 are not equal");`

(b) `class Demo{`

`static int a = 34;`

```
stic int b = 45;

static void callme() {

System.out.println ("a =" + a);

}

}

class mytest{

public sttic void main (String args[])

{

Demo.callme();

System.out.println("b =" + Demo.b);

}

}
```

5. Find the errors (if any) in the following code segments :

1+1

(a) class demo{

```
public static void main (String s[])

{
```

```
one : for (int i = 0; i < 3; i++)  
  
    {      System.out.println("Pass"+i+":");  
  
    }  
  
for (int j = 0; j<50;j++)  
  
    {  
  
    if (j == 10) break one;  
  
        System.out.println(j +"" );  
  
    }  
  
    }  
  
}
```

(b) `int twoD [] [] = new int[3] [];`

`twoD [0] [] = new int[5];`

`twoD [1] [] = new int[5];`

`twoD[2] [] = new int[5];`

6. Write a Java program that copies one file to another.

5

P.T.O.

Section C (JDBC)

1. What are statement objects ? Briefly explain the *three* types of statement objects. 4
2. State the steps for JDBC process for connecting to a DBMS. 2
3. Delete the student with RollNo=32 from 'Student' database. 4

Section D (Java Beans)

1. What is the relevance of Java Beans in software development ? 1
2. What is introspection ? What are the *two* ways in which Bean introspection can be done ? 4
3. Write an Employee JavaBean class for getting and setting the employee properties FirstName, LastName and EmpID. 5

Section E (JSP)

1. What are Java Server Pages (JSP) ? What are the advantages of using JSP ? 4
2. What is the difference between GET and POST request methods in HTTP request ? 4
3. Give *two* ways to read and insert Bean properties in a JSP page. 4

4. Write a JSP program (.jsp file) to capture the parameter values using a bean, from the input form submitted by the user as shown below : 8

Name	<input type="text"/>	
Birth Date	<input type="text"/>	
Email Id	<input type="text"/>	
Gender	<input checked="" type="radio"/>	Male
	<input type="radio"/>	Female
Hobbies	<input type="checkbox"/>	Music
	<input type="checkbox"/>	Sports
	<input type="checkbox"/>	Reading Books
<input type="button" value="Send Data"/>		