

This question paper contains 4+1 printed pages]

Roll No.

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S. No. of Question Paper : 5640

Unique Paper Code : 234504

H

Name of the Paper : Internet Technologies

Name of the Course : B.Sc. (Hons) 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 : JavaScript

Attempt any *three* questions from this section.

1. (a) Create a student registration form with two text boxes for Name and Rollno. Create functions to perform the following checks on the click of a button : 2.5+2.5

(i) Roll number is a 7 digit numeric value

(ii) Name should be an alphabetical value (String)

(b) (i) What is the output to the following code : 2

```
<SCRIPT LANGUAGE = "JAVASCRIPT"?
```

```
var a = new Array[5];
```

```
a[0]= "Delhi";
```

```
a[1]= "Mumbai";
```

```
a[2]= "Calcutta";
```

```

a[3]= "Chennai";
var b= a.join (",");
Document. write(b);
</SCRIPT>

```

- (ii) What are dense arrays in JavaScript ? Explain with the help of an example. 3
- (c) (i) Explain Document Object Model in JavaScript. 3
- (ii) Name any *four* events in JavaScript. 2
- (d) Write a JavaScript code to sort an array using insertion sort. 5

Take the number of elements and array from user using prompt dialog box.

Section B : Java

Attempt any *four* questions from this section

2. (a) What is an interface ? What is the importance of interfaces in JAVA ? 5
- (b) (i) Write the output of the following code : 2.5+2.5

```

int i=2, j =7;
do
{
if(i>j)
{break; }
j--;

```

```
}  
while (++i<5);  
System.out.println ("i="+i+"and j="+j);
```

(ii) Find and correct errors in the following code :

```
{  
int a;b;  
float c;  
Scanner buf = new Scanner(System.in);  
a=buf.next();  
System.out.println(a);  
Scanner buf1=new Scanner(System.in);  
b=buf1.next();  
System.out.println(b);  
c=a+b;  
System.outprintln(c);  
}
```

- (c) What is the difference between For loop and Enhanced For Loop. Explain with example. 5
- (d) What is compilation process in Java program ? Draw a neat diagram and explain the steps for compiling and running a java program. 5
- (e) (i) What are array lists ? How do they differ from arrays ? 2

- (ii) What are the different uses of the keyword "final" in JAVA ? 3

Section C : Java Beans

Attempt any *two* questions from this section.

- 3 (a) What is introspection ? What are the two ways in which Bean introspection can be done ? 1+4
- (b) What is the difference between bound and constrained properties ? 5
- (c) Define a Student Bean class with properties—Student Name, Rollno, Tmarks, Course and Semester. 5

Section D : JDBC

Attempt any *two* questions from this section.

4. (a) Write the JDBC code to change the column name in a table from Country to State. 5
- (b) What is the use of JDBC driver ? What are the different types of JDBC drivers ? 1+4
- (c) Explain each statement of the following code : 5

Connection

```
con=DriverManager.getConnection("jdbc:odbc:Mydsn1"," "," ");
```

```
String query="delete from Customer where CustNumber = ?";
```

```
Prepare Statement ps=con.preparedStatement(query);
```

```
ps.setString(1,"123");
```

```
Results=ps.executeQuery();
```

Section E : JSP

Attempt any *four* questions from this section.

- a) Explain HTTP Response with the help of an example. 5
- b) What is the difference between GET and POST request methods in HTTP request? 5
- c) Write a JSP page which takes the login information of a user from a form and matches it against a predefined value, using JSTL core library. 5
It should display a message "You are successfully logged in." if the value matches. Otherwise jump to an error page.
- d) Explain using an example the two ways of setting bean properties in a JSP page. 5
- e) Define a custom tag named `<PALIN input="string">` for checking whether a string is palindrome or not. 5