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No. of Printed Pages : 4

BCS-053

**BACHELOR OF COMPUTER  
APPLICATIONS (BCA)  
Term-End Examination  
December, 2019  
BCS-053 : WEB PROGRAMMING**

*Time : 2 Hours*

*Maximum Marks : 50*

*Weightage : 75%*

*Note : Question No. 1 is compulsory and carries 20 marks. Attempt any three questions from the rest.*

1. (a) A registration form requires input of the following information :
- Name of Person
  - Gender of Person
  - Country

The form is to be displayed as shown below :

Name :	<input type="text"/>
Gender :	<input type="text" value="Female"/> <input type="text" value="▽"/>
Country :	<input type="text" value="India"/> <input type="text" value="▽"/>
<input type="button" value="SUBMIT"/>	

Please note that Default Gender is "Female" and Default Country is "India". The form also has a SUBMIT button :

- (i) Write the HTML code for creation of the above form. 4
- (ii) Write a JSP program that runs on pressing of SUBMIT button and displays the registration form information in the format as shown below. 4

The following information was entered	
Name :	_____
Gender :	_____
Country :	_____

- (b) What are the advantages of XML over HTML ? Explain the structure of XML document with the help of an example. 4
- (c) Write the WML code that will create the following table : 4

Name	Programme
Ajay	BCA
Mohit	MCA

- (d) What are the uses of JSP ? Explain the advantages of using JSP over servlet. 4

2. (a) Consider the following HTML code : 4

```
<html>
```

```
<body>
```

```
<p id= "test"> welcome to exam</p>
```

(A) {Add your JavaScript code and tags here}

```
</body>
```

```
</html>
```

Write the JavaScript code along with suitable tags at (A) which changes the content "Welcome to Exam" to "Welcome to Web Programming" when it is executed. In addition the text colour should be changed to Green colour.

- (b) What is meant by a "Safe" method ? List *two* methods which are "safe". 3
- (c) What are the advantages of data streaming ? Explain with the help of a suitable example. 3
3. (a) Write a JSP scriptlet that finds the factorial of number 5 and displays it. 5
- (b) What are the advantages of using CSS ? Create an embedded style sheet that makes the text colour of every paragraph as red and background colour green. It also changes the font size to 16 px. 5

4. (a) What is the role of JDBC in a web application ? Why DriverManager class is needed ? List different signatures of getConnection method of DriverManager class. 4
- (b) Compare and contrast the following : 6
- (i) JSP compilation time errors and JSP request time errors
  - (ii) GET and POST methods
  - (iii) Blogging and Social Networking
5. Explain any *four* of the following with the help of example program/diagram, if needed : 10
- (a) Cookies
  - (b) URL rewriting
  - (c) Displaying the data obtained in a ResultSet object on execution of an SQL query
  - (d) DTD in the context of XML
  - (e) Handling of onclick event
  - (f) Box model of HTML