

**BACHELOR OF COMPUTER APPLICATIONS
(BCA) (Revised)****Term-End Examination****June, 2021****BCS-053 : WEB PROGRAMMING***Time : 2 hours**Maximum Marks : 50
(Weightage 75%)*

Note : Question no. 1 is **compulsory**. Attempt any **three** questions from the rest.

1. (a) What is the purpose of < SELECT > element in HTML ? Explain how you will display the following list in HTML :

5

Select Highest Qualification

10 th	▼
10 th	
10 + 2	
Graduation	

- (b) What is more useful — Inline styles or Embedded style sheet ? Give reason in support of your answer.

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- (c) Explain the how JavaScript can be used for modifying style of HTML element with the help of an example. 3
- (d) Explain the steps of JSP page processing with the help of a diagram. 5
- (e) Why does HTTP protocol need session management ? What is ‘Session’ and ‘State’ in this context ? Explain with the help of an example. 3
- (f) A variable ‘i’ is of integer type and name is an object of class string. Write the JSP code fragment that will declare ‘i’ and ‘name’ variables. 2
- 2.** (a) What is a Blog ? What does it contain ? What is a Microblog ? 3
- (b) What is the need of id selector in CSS ? Explain with the help of an example. 3
- (c) Write the HTML code that displays a paragraph “Welcome to Exam hall”. Write a JavaScript code that changes this para to “Welcome to IGNOU” when the display of “Welcome to Exam hall” is clicked. You should use event handling for the same. 4

3. (a) Create the following table using WML table element :

Book Title	Author Name
Computers Now	Desai
Web Programming	Tanenbaum

You need not display any title. 3

- (b) Represent the following information using an XML document. Write the DTD that validates the XML document created for : 4

St_ID	Name	Programme
1001	Ravi	Bachelor of Computer Applications
1002	Ullman V	PhD

- (c) What is WAP ? Why is WAP needed ? 3

4. (a) Explain the three layer architecture of Web applications with the help of a diagram. 5

- (b) Write the scriptlet using JSP that prints a sequence of numbers from 1 to 5. Also find the sum of the sequence you must use for loop. 5

5. (a) What is JSP Request Time Error ? How can these errors be handled ? 3

- (b) What is the role of DriverManager class ?
Explain one of the important methods of this class. 3
- (c) Assume that a database contains a table Course (Course_ID, Name, Fee) and a connection to this database has been established. Write and explain JSP statements that will bring the details of courses in a ResultSet object. 4
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