

# 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 :

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Select Highest Qualification

10 <sup>th</sup>	▼
10 <sup>th</sup>	
10 + 2	
Graduation	

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

2

- (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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