

**BACHELOR OF COMPUTER
APPLICATIONS (BCA) (REVISED)
Term-End Examination
June, 2023
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 question no. 2 to question no. 5.*

1. (a) Consider the following information : 3+3

Student Name		Programme Code
First name	Last Name	
Ravi	Kumar	BCA
Ananth	Malik	MCA

- (i) Create an XML document for the data given in the table above. Use appropriate tags.
- (ii) Create the DTD to validate the XML document created in part (i).

- (b) A database table consists of the following fields :

Programme (ProgrammeCode, Title, Duration)

Assuming that connection has been established with the database and a statement object “stmt” has been instantiated, write the code fragment to get a ResultSet object containing the list of all those programmes, whose duration is more than 1 year. 6

- (c) Write a JavaScript script that changes the colour of paragraph, whose id is “IGNOU”, to green. 5
- (d) Explain the GET method of HTTP with the help of an example. 3
2. (a) Explain the MVC architecture with the help of a diagram. 5
- (b) What are implicit objects in the context of JSP ? Explain any *two* implicit objects of JSP. 5

3. (a) What is the need of session management in the context of HTTP ? Define the terms—session and state in this context. Explain with the help of .JSP script, how session object can be used to create a session. 7
- (b) What is include directive in JSP ? Explain its use with the help of an example. 3
4. (a) Explain the following technologies in the context of Web 2.0 : 6
- (i) Widgets
 - (ii) Blogging
 - (iii) Podcasting
- (b) Write HTML code to create a form as shown below : 4

Student Name :	<input type="text"/>						
Programme Code :	<table border="1"><tr><td>BCA</td><td>▼</td></tr><tr><td>BCA</td><td></td></tr><tr><td>CIT</td><td></td></tr></table>	BCA	▼	BCA		CIT	
BCA	▼						
BCA							
CIT							
<input type="button" value="SUBMIT"/>							

5. (a) What are the advantages of using CSS ?
What is an external style sheet ? How is it
linked to the related HTML document ? 5
- (b) Explain the following WML elements with
the help of an example : 3+2
- (i) WML Tables
- (ii) <anchor> element