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**BCS-053**

**BACHELOR OF COMPUTER  
APPLICATION (REVISED)  
(BCA)**

**Term-End Examination**

**June, 2020**

**BCS-053 : WEB PROGRAMMING**

*Time : 2 Hours*

*Maximum Marks : 50*

*(Weightage 75%)*

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

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1. (a) Following books information is to be represented by using XML :

Title of the book	Name of author(s)	Years of publication
Your Story	R. Rohan	2015
Web Programming	A Tanenbaum	2001

P. T. O.

- (i) Create an XML document for the data above. You must use appropriate tags.

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- (ii) Create a DTD to validate XML document created in part (i) above.

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- (b) A database contains two fields of a student :

Name

Class

Assuming that a connection has been created and statement object "stmt" has been instantiated, write the code fragment to get a ResultSet containing the list of all the students and display the date of RecordSet object.

6

- (c) What is the purpose of directives in JSP ? Explain the uses of include file directive of JSP with the help of an example.

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- (d) Write the HTML code segment that will create the following table : 4

PROGRAMME	Fee
MCA	9000 per semester
BCA	6000 per semester

2. (a) Define the term Event in the context of JavaScript. Write a JavaScript function which changes the display of content of a paragraph on a browser from "Demo of Event" to "Event handled." You must create a button which when clicked executes the stated function. 5
- (b) Explain the life-cycle of a JSP page with the help of a diagram. 5
3. (a) Why is session management needed for HTTP protocol ? Explain, how cookies can be used for session management. 5
- (b) Explain the role of CSS in an HTML file display. Explain the uses of class selector and id selector with the help of an example each. 5

4. Compare and contrast between the following : 10
- (a) Web Services and Blogging
  - (b) Static web pages and Dynamic web pages
  - (c) 2 Tier client server architecture and N Tier architecture
  - (d) JSP action elements and JSP scripting elements
5. Explain any *four* of the following with the help of an example/diagram in the context of Web Programming : 10
- (a) JDBC-ODBC Bridge
  - (b) URL Rewriting
  - (c) JSP Request time error
  - (d) WML <select> element
  - (e) XML schema
  - (f) Web 2.0