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BCS-053

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

Term-End Examination

June, 2025

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 nos. 2 to 5.*

1. (a) What is the purpose of <error-page>
element in JSP page ? Explain. 4

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- (b) What is WML ? Explain any *two* WML elements that can be used for data inputs. 4
- (c) What is DOM ? Draw the node tree of an HTML DOM. 4
- (d) Write a JSP scriptlet that displays the area of a triangle. 4
- (e) Explain the following tags with HTML code : 4
- (i) <ASIDE> tag
 - (ii) <MATHML> tag
 - (iii) <BDI> tag
 - (iv) <NAV> tag
2. (a) Differentiate between the following : 6
- (i) `executeUpdate()` and `executeQuery()` method
 - (ii) Web container and HTTP server
 - (iii) Ajax and JavaScript

- (b) What is DTD ? Explain its role in XML. 4
3. (a) Write a JSP program which will demonstrate the use of < jsp : plug in > action element. 5
- (b) Why do we use GET and POST methods of HTTP protocol ? Explain with example code. 5
4. (a) Explain the use of the following in XML : 5
- (i) XML schemas
- (ii) XML namespaces
- (b) Explain the *two* attributes of page directive which are included in exception handling in JSP page. 5

5. Explain any *four* of the following terms with the help of a diagram or an example :

$$4 \times 2 \frac{1}{2} = 10$$

- (a) JDBC-ODBC Bridge
- (b) Inline style sheet
- (c) Taglib directive
- (d) Mashups
- (e) 3-tier architecture

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