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

(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 scriplet 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

× × × × ×