



End Term (Odd) Semester Examination December 2024

Roll no. 2321285

Name of the Course and semester: BCA IIIrd
Name of the Paper: *Web Application Development*
Paper Code: TBC 301

Time: 3 hour

Maximum Marks: 100

Note:

- (i) All the questions are compulsory,
- (ii) Answer any two sub questions from a, b and c in each main question.
- (iii) Total marks for each question is 20 (twenty).
- (iv) Each sub-question carries 10 marks.

Q1. (2X10=20 Marks)

- a. Define list in XHTML. differentiate between XHTML and HTML with an example. CO1
- b. Explain in detail: CO1
 - i) MIME ii) WWW iii) Internet iv) HTTP with suitable example
- c. Describe the importance of table in HTML? Create a table that demonstrates all the table attributes. CO1

Q2. (2X10=20 Marks)

- a. i) Explain different levels of CSS with example. CO2
 - ii) Explain any five types of selectors in CSS with example.
- b. Differentiate between pseudo classes and pseudo elements in CSS. Write a program to apply the pseudo class and pseudo elements on <a> and <div> element. CO2
- c. Describe the importance of box model in CSS explain with proper diagram. Write a program to demonstrate all the box model properties on an element. CO2

Q3. (2X10=20 Marks)

- a. Describe the Document Object Model (DOM) in JavaScript? Explain its tree structure with an example, and demonstrate how JavaScript can be used to access and modify HTML elements. CO3
- b. Describe the use of event handling in JavaScript? Write a program to change the content of an element on click event. CO3
- c. Explain the importance of client-side validation in JavaScript? write an example to demonstrate form validation where:
 - (i) "Name" cannot be empty,
 - (ii) "password" should be alphanumeric,
 - (iii) A valid phone number

Q4. (2X10=20 Marks)

- a. Define string in PHP? Write a program to demonstrate all string methods with example. CO4
- b. Describe the use of array in PHP? Explain the types of arrays in PHP with example. CO4
- c. Write a program to find out the larger number among three numbers in PHP. CO4

Q5. (2X10=20 Marks)

- a. Differentiate between Get and post methods in form submitting? Give the case where you can use get and post methods. CO5
- b. Differentiate between cookies and session with example in PHP? CO5
- c. Describe how PHP interact with a MySQL database? Write a PHP script to connect to a MySQL database, insert a record into a table, and retrieve all records from the table. CO5