

R18

Code No: 155DN

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year I Semester Examinations, January - 2025

WEB TECHNOLOGIES

(Common to CSE, CSBS)

Time: 3 Hours

Max. Marks: 75

Note: i) Question paper consists of Part A, Part B.

ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.

iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART - A

(25 Marks)

- 1.a) Define a variable and list the data types in PHP. [2]
- b) Explain how to read data from a web form in PHP. [3]
- c) What are HTML tags? List any five commonly used HTML tags. [2]
- d) Differentiate between XML and HTML. [3]
- e) What is the role of a Servlet? Explain the Servlet lifecycle. [2]
- f) Explain the concept of Cookies in Servlets. [3]
- g) Describe the anatomy of a JSP page. [2]
- h) Explain the purpose of using Beans in JSP pages. [3]
- i) Write a short note on the Document Object Model (DOM). [2]
- j) Explain the use of event handlers in JavaScript. [3]

PART - B

(50 Marks)

- 2.a) Write a PHP program to handle file uploads.
 - b) Explain the process of establishing a database connection using PHP. [5+5]
- OR**
- 3.a) Discuss the use of sessions in PHP with an example.
 - b) Write a PHP script to display data from a MySQL database. [5+5]
- 4.a) Design an HTML form to capture user details (e.g., name, email, phone).
 - b) Write a CSS snippet to style the form created in question (4.a). [5+5]
- OR**
- 5.a) Explain how XML data is parsed using a DOM parser in Java.
 - b) Define and illustrate an XML schema with an example. [5+5]
- 6.a) Create a simple Java Servlet to process and display user input from an HTML form.
 - b) Explain the steps to connect a Servlet to a database using JDBC. [5+5]
- OR**
- 7.a) Discuss how HTTP requests and responses are handled in Servlets.
 - b) Explain session tracking using Cookies in Servlets. [5+5]

QA QA QA QA QA QA QA G

- 8.a) Write a JSP script to display a dynamic welcome message based on user input.
- b) Explain the implicit objects available in JSP with examples.

[5+5]

QA QA QA QA OR QA QA QA G

- 9.a) Describe session tracking in JSP using Cookies.
- b) Write a JSP program to retrieve and display data from a database.

[5+5]

- 10.a) Write a JavaScript function to validate a user registration form.
- b) Explain the use of AJAX in enhancing web applications.

[5+5]

QA QA QA QA OR QA QA QA G

- 11.a) Write a JavaScript program to handle the "onclick" event on a button.
- b) Discuss the role of the DOM in JavaScript with an example.

[5+5]

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