

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST-2 EXAMINATIONS-2026

B. Tech-IV Semester (IT)

COURSE CODE (CREDITS): 25B1WCI435 (4)

MAX MARKS: 25

COURSE NAME: WEB TECHNOLOGIES AND APPLICATIONS

COURSE INSTRUCTOR: MR. PRATEEK

MAX. TIME: 1 Hour 30 Min

Note: (a) All questions are compulsory.

(b) The candidate is allowed to make suitable numeric assumptions wherever required for solving problems

(c) Use of calculators is not allowed

| Q.No | Question   | CO  | Marks |
|------|--|-----|-------|
| Q1   | <p>Use HTML and CSS code to create the login form given below:</p> <div data-bbox="293 891 1209 1456" style="border: 1px solid black; padding: 10px; margin: 10px auto; width: fit-content;"> <p style="text-align: center;"><b>Enter Login Details</b></p> <p>Username: <input type="text"/></p> <p>Password: <input type="password"/></p> <p>Aadhar No.: <input type="text"/></p> <p style="text-align: center;"> <input type="button" value="Submit"/> <input type="button" value="Reset"/> </p> </div> <p>Write down the JavaScript code in a single program that performs form validation on the given HTML form such that:</p> <p>(a) Username field should not be left blank. (do not use 'required' attribute)</p> <p>(b) Aadhar No. field should contain only digits and exactly 12 digits.</p> | CO2 | 1+4   |
| Q2   | <p>What do you mean by pop-up boxes in JavaScript? What are the different types of pop-up boxes supported by JavaScript? Write down separate sample code snippets for displaying each type of pop-up box.</p>  | CO3 | 5     |

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| Q3 | <p>What are the advantages of linking an external file to an existing HTML file? Explain in detail how linking an external CSS file to an HTML document is different from linking an external JavaScript file? Write down two different codes for each of the category.</p>   | CO2 | 4 |
| Q4 | <p>Differentiate between the following JavaScript methods:</p> <ul style="list-style-type: none"> <li>(a) indexOf() and search()</li> <li>(b) toUpperCase() and toLowerCase()</li> <li>(c) substring() and substr()</li> </ul> <p>Also write down JavaScript code along with the output for each of these methods separately.</p>   | CO3 | 6 |
| Q5 | <p>Write down HTML code to produce the following output on web browser. Use JavaScript user-defined functions and appropriate HTML DOM events in the same program such that:</p> <p>Clicking on "Click me Once." button will display the message "You Clicked me Once" and Clicking on "Double Click Me." button will display the message "You Double Clicked me".</p> <div style="border: 1px solid black; padding: 10px; margin: 20px auto; width: fit-content;"> <p style="text-align: center;"><b>Event Handling in JavaScript</b></p> <p style="text-align: center;"> <input type="button" value="Click me Once"/> </p> <p style="text-align: center;"> <input type="button" value="Double Click Me"/> </p> </div> | CO3 | 5 |