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BRAINWARE UNIVERSITY

Term End Examination 2025-2026
Programme – B.Tech.(CSE)-CYS-2024
Course Name – Web Technology
Course Code - BTY40108
(Semester IV)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) Which protocol is used to transfer web pages on the Internet?
 - a) FTP
 - b) SMTP
 - c) HTTP
 - d) POP
- (ii) Which of the following is a web client?
 - a) Apache Server
 - b) Google Chrome
 - c) MySQL
 - d) Linux Kernel
- (iii) Which HTML tag is used to create a table?
 - a) < list >
 - b) < table >
 - c) < tr >
 - d) < td >
- (iv) Which tag is used to create an ordered list?
 - a) < ul >
 - b) < li >
 - c) < ol >
 - d) < dl >
- (v) Which HTML5 attribute enables drag and drop?
 - a) draggable
 - b) movable
 - c) dragdrop
 - d) move
- (vi) Which CSS is written inside the HTML tag using style attribute?
 - a) External CSS
 - b) Embedded CSS
 - c) Inline CSS
 - d) Internal CSS
- (vii) Which protocol is used for secure web communication?
 - a) HTTP
 - b) FTP
 - c) HTTPS
 - d) SMTP
- (viii) What is the main role of a web server?
 - a) Design web pages
 - b) Store and process client requests
 - c) Create databases
 - d) Run applications only

- (ix) Why is Bootstrap used in web development?
- a) To create databases
 - b) To design responsive layouts easily
 - c) To secure websites
 - d) To host web pages
- (x) To include Bootstrap in a webpage, which file type is required?
- a) .html
 - b) .css
 - c) .js
 - d) Both .css and .js
- (xi) To submit data securely, use
- a) GET
 - b) POST
 - c) FETCH
 - d) SEND
- (xii) To validate user input, use
- a) HTML table
 - b) JavaScript
 - c) CSS
 - d) Bootstrap
- (xiii) To access HTML elements dynamically, use
- a) CSS
 - b) DOM
 - c) XML
 - d) PHP
- (xiv) To fetch JSON data, use
- a) CSS
 - b) AJAX
 - c) PHP only
 - d) HTML
- (xv) Why is external CSS preferred?
- a) Faster typing
 - b) Reusability
 - c) More security
 - d) Less files

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Describe the significance of form validation using JavaScript. (3)
3. Illustrate the use of built-in objects in JavaScript. (3)
4. Find a JavaScript function to find the maximum number in an array. (3)
5. Choose the correct components of MVC architecture and explain (3)
6. Explain the purpose of using prepared statements in PHP? (3)

OR

Name three built-in objects in JavaScript. With example. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. State the difference between HTML and DHTML (5)
8. List the need of scripting languages in web Technologies and build a java script program to convert temperature from Celsius to Fahrenheit and vice versa. (5)
9. Define Form tag. Design a Registration page by using all Form controls. (5)
10. Explain about Function definition, Function calling, Function parameter, return type with a suitable example in JavaScript. (5)
11. Classify different types of errors in PHP and explain how to handle them effectively in web applications. (5)
12. Justify the use of JavaScript in web development for client-side scripting. How does JavaScript contribute to dynamic behavior, DOM manipulation, and asynchronous communication in modern web applications? (5)

OR

Analyze the role of PHP in creating dynamic web applications. How does PHP interact with HTML, JavaScript, and MySQL to deliver real-time content to users? (5)