



BRAINWARE UNIVERSITY

Term End Examination 2025-2026

Programme – B.Tech.(CSE)-DS-2022/B.Tech.(CSE)-DS-2023

Course Name – Web Technology

Course Code - PEC-CSD601C

(Semester VI)

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) Name the keyword used to declare a variable in JavaScript.
 - a) var
 - b) let
 - c) const
 - d) All of the these
- (ii) Outline the PHP stand for?
 - a) Personal Hypertext Processor
 - b) Preprocessor Hypertext Processor
 - c) PHP: Hypertext Preprocessor
 - d) Programming Hypertext Processor
- (iii) Which function is used to start a session in PHP?
 - a) start_session ()
 - b) session_start ()
 - c) init_session ()
 - d) session_init ()
- (iv) Identify the correct way to close a session in PHP?
 - a) close_session ()
 - b) session_end ()
 - c) session_destroy ()
 - d) session_close ()
- (v) How can we get the current date and time in PHP?
 - a) Using time () function
 - b) Using date () function
 - c) Using current () function
 - d) Using getdate () function
- (vi) What is the use of the explode () function in PHP?
 - a) To split a string into an array
 - b) To combine multiple arrays
 - c) To merge two strings
 - d) To transform a string into uppercase
- (vii) Outline invalid HTML5 form input type?
 - a) email
 - b) radio
 - c) checkbox
 - d) date-time
- (viii) Which of the following is a feature of the Bootstrap framework?
 - a) Mobile-first responsive design
 - b) JavaScript libraries
 - c) Complex UI components
 - d) All of the above
- (ix) Select the correct way to apply an external CSS stylesheet to an HTML document?

- a) < link href = " style.css " >
c) < stylesheet href = " style.css " >
b) < style src = " style.css " >
d) < css src = " style.css " >
- (x) Identify the role of the < head > element in HTML.
a) Contains links to CSS stylesheets
b) Contains the content of the page
c) Contains the script elements
d) Contains the metadata of the document
- (xi) Select the correct option for The console.log () function in JavaScript is used to:
a) Log messages to the console
b) Alert messages on the screen
c) Change the content of an element
d) Set values in local storage
- (xii) Identify : A variable that can be reassigned in JavaScript is declared using
a) let
b) const
c) final
d) immutable
- (xiii) Classify xml ns attribute in xml do
a) Defines the version of xml
b) Declares an xml namespace
c) Specifies the data format
d) Specifies the root element
- (xiv) Name an input type that allows file selection in an HTML form.
a) < input type="file" >
b) < input type="upload" >
c) < input type="document" >
d) < input type="text" >
- (xv) Name the attribute that prevents a user from editing the value of an input field but still submits it.
a) disabled
b) hidden
c) locked
d) readonly

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Describe how Node.js helps in handling asynchronous requests in web development. (3)
3. Build a responsive grid layout using Bootstrap with three equal-width columns on large screens and stacked on small screens. (3)
4. List five built-in objects in JavaScript. (3)
5. How does JavaScript event handling work? (3)
6. Apply internal CSS to change the background color of a page to light blue. (3)

OR

Write HTML code to embed a video from a file named "video.mp4". (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Classify different types of errors in PHP and explain how to handle them effectively in web applications. (5)
8. Identify the differences between REST and SOAP web services and explain their use cases. (5)
9. Define Form tag. Design a Registration page by using all Form controls. (5)
10. Define JavaScript? List the features of JavaScript? Design A JavaScript to display whether given number is prime or not. (5)
11. Explain database connectivity in php with reference to MYSQL (with a snippet). (5)
12. Compare and contrast JavaScript with server-side scripting languages like PHP. Why would you choose one over the other in certain scenarios? (5)

OR

Evaluate the advantages of using the Bootstrap framework for front-end development. How does it speed up web development? (5)
