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Barasat, Kolkata -700125

BRAINWARE UNIVERSITY

Term End Examination 2024-2025
Programme – B.Tech.(CSE)-DS-2022
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) Choose the correct statement about the Internet.

- | | |
|---|---|
| a) The Internet is a private network | b) The Internet is a global network of interconnected computers |
| c) The Internet and World Wide Web are the same | d) The Internet does not use protocols |

(ii) Outline the correct file extension for JavaScript files.

- | | |
|------------|----------|
| a) .java | b) .js |
| c) .script | d) .html |

(iii) Name the HTTP method used to send form data to a server securely

- | | |
|-----------|----------|
| a) GET | b) POST |
| c) DELETE | d) PATCH |

(iv) Outline the PHP stand for?

- | | |
|---------------------------------|-------------------------------------|
| a) Personal Hypertext Processor | b) Preprocessor Hypertext Processor |
| c) PHP: Hypertext Preprocessor | d) Programming Hypertext Processor |

(v) Which function is used to start a session in PHP?

- | | |
|----------------------|----------------------|
| a) start_session () | b) session_start () |
| c) init_session () | d) session_init () |

(vi) Identify the correct way to close a session in PHP?

- | | |
|------------------------|----------------------|
| a) close_session () | b) session_end () |
| c) session_destroy () | d) session_close () |

(vii) What is the purpose of the \$_GET array in PHP?

- | | |
|---|--|
| a) To store form data sent via the GET method | b) To store form data sent via the POST method |
| c) To store session data | d) To handle file uploads |

(viii) Identify the CSS property used to change the font family of text?

- | | |
|---------------|----------------|
| a) font-style | b) font-family |
|---------------|----------------|

- c) text-family
- (ix) Select the HTML5 element used to embed a video.
- a) < video >
b) < media >
c) < movie >
d) < film >
- (x) Identify default alignment of text in a < div > element.
- a) left
b) right
c) center
d) justify
- (xi) Select the xml tag used to define an element in an xml document -
- a) < element >
b) < name >
c) < item >
d) < data >
- (xii) Select for a well-formed xml document must:
- a) Have matching start and end tags
b) Use HTML tags
c) Contain only text
d) Include CSS tags
- (xiii) Select the root element of an xml document can be .
- a) Optional
b) Mandatory
c) Defined by the user
d) Defined by the operating system
- (xiv) Identify the techniques for using external CSS file.
- a) When CSS is applied inside an HTML file
b) When CSS is written in the section
c) When CSS is stored in a separate .css file
d) When CSS is written inside an element
- (xv) Select from below as JavaScript mainly used for?
- a) Creating databases
b) Styling web pages
c) Making web pages interactive
d) Managing servers

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Build an XML document for XML food menu. with following elements: food_type, name, price, description (3)
3. Explain the role of XML Schema in defining the structure of XML documents. (3)
4. Develop a simple JavaScript script to display an alert message. (3)
5. Define MVC ? Explain. (3)
6. Create an unordered list in HTML with three items. (3)

OR

Design an HTML form with a text input and a submit button. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Classify the different types of JavaScript objects and explain their hierarchy in the language. (5)
8. Identify the key features of an XML schema and explain its role in defining XML data structure. (5)
9. Explain the structure of the HTML webpage with an example and Define list Tag with an example (5)
10. Explain various operators and data types available in java script with examples. (5)
11. Define XHTML. What are the differences between XHTML and HTML with an example. (5)
12. Justify the choice of using HTML5 for web development in modern applications. (5)

OR

Evaluate the role of AJAX in modern web applications. How does it improve user experience compared to traditional page loading? (5)