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Question Paper Code	13149
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B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV / DEC 2024

Fifth Semester

Computer Science and Engineering

(Common to Computer Science and Engineering (IoT))

20CSPC501 - INTERNET PROGRAMMING

Regulations - 2020

Duration: 3 Hours

Max. Marks: 100

PART - A (MCQ) (20 × 1 = 20 Marks)

Answer ALL Questions

	<i>Marks</i>	<i>K- Level</i>	<i>CO</i>
1. How do you import an external style sheet into another style sheet in CSS? (a) @import url("styles.css"); (b) import("styles.css"); (c) import url("styles.css"); (d) #import("styles.css");	1	K1	CO1
2. Summarize the HTML5 control element < input type="range"> How does it differ from other input types? (a) It allows users to select a value within a specified range (b) It creates a dropdown menu for selecting options (c) It displays a color picker for selecting colors (d) It enables users to upload files from their local system	1	K2	CO1
3. To link an External Style Sheet to an HTML document, which HTML tag is used? (a) <css> (b) < style > (c) < link > (d) <stylesheet>	1	K1	CO1
4. JavaScript is a _____ Side Scripting Language. (a) server (b) isp (c) browser (d) internet	1	K1	CO2
5. A regular expression is a pattern of characters. The pattern is used to do pattern-matching functions on text. (a) "search-and-replace" (b) "display-and-replace" (c) "seacrh-and-delete" (d) None of the mentioned	1	K1	CO2
6. JSON files are _____ (a) not-readable (b) string-readable (c) machine-readable (d) human-readable	1	K1	CO2
7. Which of the following is true about the DriverManager class in JDBC? (a) It is used to load JDBC drivers. (b) It handles the connection pooling. (c) It is used to execute SQL queries. (d) It manages transaction savepoints.	1	K1	CO3
8. Relate the following tag is used to execute a java source code in JSP? (a) Declaration tag (b) Scriptlet tag (c) Expression tag (d) None of the mentioned	1	K2	CO3
9. What is the correct syntax for the JSP expression tag? (a) < %= expression % > (b) < % expression % > (c) < %! expression % > (d) < %@ expression % >	1	K1	CO3
10. Which of the following is used to display a success message after submitting a form in PHP? (a) header() (b) echo() (c) print() (d) die()	1	K1	CO4
11. PHP is scripting language. (a) Server-side (b) Client-side (c) Middle-side (d) Out-side	1	K1	CO4
12. PHP Scripts starts with (a) < php> ... </php> (b) <?php ?> (c) ?php ... ?php (d) < p> ... </p>	1	K1	CO4
13. Which term describes the process of accessing the DOM using an Application Programming Interface? (a) DOM Interaction (b) API Access (c) DOM Manipulation (d) API Integration	1	K1	CO5
14. The attribute used to define a new namespace is (a) XMLNS (b) XmlNameSpace (c) xmlns (d) XmlName	1	K1	CO5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create

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15. _____ provides extra information about XML elements. 1 K1 CO5
 (a) Tags (b) Entities (c) Attributes (d) None of the mentioned
16. How does the Document Object Model (DOM) facilitate dynamic content manipulation in web pages? 1 K1 CO5
 (a) By encapsulating HTML elements into tree-like structures
 (b) By providing a platform-neutral interface for accessing and updating document content
 (c) By optimizing browser rendering engines for faster performance
 (d) By standardizing JavaScript code execution across different browsers
17. The term PCDATA stands for _____. 1 K1 CO6
 (a) Pure Character Data (b) Parsed Character Data
 (c) Predefined Character Data (d) None of the mentioned
18. _____ allows you to send and receive data asynchronously without reloading the entire web page 1 K1 CO6
 (a) SAX (b) Asynchronous JavaScript
 (c) XML (d) Asynchronous JavaScript and XML
19. AJAX communicates with the server using _____ object 1 K1 CO6
 (a) XMLHttpRequest (b) DOM
 (c) XML or JSON(JavaScript Object Notation) (d) HTML/XHTML and CSS
20. _____ is a new technique for creating better, faster and interactive web applications 1 K1 CO6
 (a) Asynchronous JavaScript (b) Asynchronous JavaScript and XML
 (c) XML (d) SAX

PART - B (10 × 2 = 20 Marks)

Answer ALL Questions

21. Show the structure of HTML 5. 2 K2 CO1
22. Define CSS and list the features. 2 K1 CO1
23. State the features of JSON. 2 K1 CO2
24. Define DOM tree and its structures. 2 K1 CO2
25. List out Servlet Life Cycle methods. 2 K1 CO3
26. Define JDBC. 2 K1 CO3
27. List the data types used in PHP. 2 K1 CO4
28. Classify the difference between echo() and print() functions. 2 K2 CO4
29. Define DTD in XML schema. 2 K1 CO5
30. How does the send() method work in an AJAX request? 2 K1 CO6

PART - C (6 × 10 = 60 Marks)

Answer ALL Questions

31. a) Illustrate the types of cascading style sheets with their suitable examples. 10 K2 CO1
OR
 b) Explain and write a program in HTML using image tag, font tag, hyperlink tag. 10 K2 CO1
32. a) i) Examine variables and data types in JavaScript with examples. 4 K2 CO2
 ii) Discuss about operations in JavaScript with examples. 6 K2 CO2
OR
 b) Explain the JavaScript array handling and array methods with example. 10 K2 CO2

33. a) Describe in detail the session handling in server side programming. 10 K2 CO3
- OR**
- b) Illustrate a Java Servlet to display the net salary of an employee, use JDBC connectivity to get employee details from the database. 10 K2 CO3
34. a) Describe the looping and decision making statement in PHP. 10 K2 CO4
- OR**
- b) Explain in detail about the regular expressions in PHP. 10 K2 CO4
35. a) Explain in detail about XSL and XSLT transformation. 10 K2 CO5
- OR**
- b) i) Explain in detail about the building blocks of DOM. 5 K2 CO5
- ii) Classify the types of DTD in XML. 5 K2 CO5
36. a) Explain the AJAX Client Server architecture in detail with a diagram. 10 K2 CO6
- OR**
- b) Explain XML Http Request to retrieve data from an XML file and display the data in an HTML table. The data to be retrieved is a collection of stationary items stored in an XML file. 10 K2 CO6