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Question Paper Code	13490
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B.E. / B.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2025

Sixth Semester

Computer Science and Business Systems

20CBEL603 - MODERN WEB APPLICATIONS WITH LABORATORY

Regulations - 2020

Duration: 3 Hours

Max. Marks: 100

PART - A (MCQ) (10 × 1 = 10 Marks)

Answer ALL Questions

	Marks	K – Level	CO
1. Which protocol is used to transfer web pages on the Internet? (a) FTP (b) HTTP (c) SMTP (d) TCP/IP	1	K1	CO1
2. What is the primary purpose of a web browser? (a) To store web pages (b) To request and display web pages (c) To create web pages (d) To manage databases	1	K1	CO1
3. What is the correct syntax for inserting an image in HTML? (a) (b) <image src="image.jpg"> (c) (d) 	1	K1	CO2
4. Which of the following tags doesn't require a closing tag? (a) (b) <hr> (c) Both A and B (d) None of the above	1	K1	CO2
5. How do you create an object in JavaScript? (a) let obj = new Object(); (b) let obj = {}; (c) let obj= Object.Create(null); (d) All of the above	1	K1	CO3
6. Find the following is used to apply styles to an XML document. (a) CSS (b) XSL (c) Both a) and b) (d) None of the above	1	K1	CO3
7. Select the PHP global array is used to retrieve form data. (a) \$_SESSION (b) \$_FORM (c) \$_REQUEST (d) \$_GET or \$_POST	1	K1	CO4
8. Which of the following is a valid way to declare a variable in PHP? (a) \$var_name = 10; (b) var_name=10; (c) int var_name=10; (d) define(\$var_name,10);	1	K1	CO4
9. Which function is used to establish a database connection using PDO? (a) new PDO() (b) pdo_connect() (c) mysql_connect() (d) mysqli_connect()	1	K1	CO5
10. How do you close a MySQL connection in PHP? (a) mysql_close(\$conn); (b) mysqli_close(\$conn); (c) pdo_close(\$conn); (d) disconnect(\$conn);	1	K1	CO5

PART - B (12 × 2 = 24 Marks)

Answer ALL Questions

11. What is the main role of web server?	2	K1	CO1
12. Compare an absolute URL and a relative URL.	2	K2	CO1
13. List the categories of web applications.	2	K1	CO1
14. Enlist any five features of HTML.	2	K1	CO2
15. Spell the HTML code to display an image.	2	K1	CO2
16. How do you use Line Break and Horizontal line tags in HTML?	2	K1	CO2
17. Write the JavaScript code to display the Welcome message.	2	K1	CO3
18. Recall the Merits and Demerits of DTD.	2	K1	CO3
19. Find the purpose of GET & POST method.	2	K1	CO4
20. Write a PHP program to reverse a string.	2	K1	CO4
21. Outline the code to open a connection MySQL.	2	K2	CO5

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

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22. Write the code to create a PHP session? 2 K1 CO5

PART - C (6 × 11 = 66 Marks)

Answer ALL Questions

23. a) Outline the structure of Uniform Resource Locator (URL) and its types with an example. 11 K2 CO1

OR

b) Compare the different categories of web applications, providing examples for each category. 11 K2 CO1

24. a) Relate the different types of CSS and their selectors, providing appropriate examples. 11 K2 CO2

OR

b) Summarize the Bootstrap CSS forms .Provide an example of an examination registration form using Bootstrap form classes. 11 K2 CO2

25. a) Explain Document type Definition (DTD) and its types with a suitable example. 11 K2 CO3

OR

b) Illustrate the different types of objects and their significance in JavaScript, providing suitable examples. 11 K2 CO3

26. a) Develop a basic HTML form with the following inputs: 11 K3 CO4

- Name (text field)
- Email (text field)
- Gender (radio buttons)
- Hobbies (checkboxes)
- Submit button

Write a PHP script to handle the form data and display the submitted values.

OR

b) Model a PHP function that takes an array of numbers as input and returns the sum of all even numbers. Implement this function in a PHP script. 11 K3 CO4

27. a) Build a PHP database for a student management system and also perform the CRUD operations like inserting, selecting, updating and deleting data into the database table. 11 K3 CO5

OR

b) Implement a PHP-based Employee Management System with a form to insert employee details (name, email, position, salary) into a MySQL database. Use prepared statements to prevent SQL injection. 11 K3 CO5

28. a) (i) Explain how strings work in PHP, including their various operations, and provide a suitable example. 6 K2 CO4

(ii) Explain how to write code for creating a database in PHP, providing a suitable example. 5 K2 CO5

OR

b) (i) Classify the different types of operators in PHP, providing suitable examples for each type. 6 K2 CO4

(ii) Infer the PHP code to insert the below data values into the table. 5 K2 CO5
First Name, Last Name, E-mail, Comment, Gender.