

Reg. No.

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**B.E. / B.TECH. DEGREE EXAMINATIONS, MAY 2024**

Sixth Semester

**OE18506 – INTERNET PROGRAMMING***(Common to AUTO, BIOTECH, CHEMICAL, ECE, EEE, MECH)***(Regulation 2018/2018A)****TIME: 3 HOURS****MAX. MARKS: 100**

COURSE OUTCOMES	STATEMENT	RBT LEVEL
CO 1	Students will be able to be familiar with basics of the Internet Programming.	2
CO 2	Students will be able to acquire knowledge and skills for creation of web page for client side with basic html elements.	3
CO 3	Students will be able to develop web applications with styling sheets.	4
CO 4	Students will be able to create interactive web site for client side with JavaScript.	4
CO 5	Students will be able to build Dynamic web site with servlet.	3

**PART- A (10 x 2 = 20 Marks)**

(Answer all Questions)

	CO	RBT LEVEL
1. Differentiate TCP and UDP.	1	3
2. Define DNS and explain its role in web communication.	1	2
3. Describe the structure of an HTML document.	2	2
4. Differentiate between ordered and unordered lists in HTML	2	3
5. Describe the process of linking an external CSS file to an HTML document.	3	2
6. Write a CSS program to display “hello world” in blue color.	3	3
7. Explain the purpose of JavaScript in web development.	4	2
8. Differentiate between == and === operators in JavaScript.	4	3
9. List the role of servlets in web development.	5	2
10. Give any 4 advantages of using cookies for session tracking.	5	2

**PART- B (5 x 14 = 70 Marks)**

	Marks	CO	RBT LEVEL
11. (a) Discuss the structure of HTTP requests and responses, along with their	(14)	1	2

respective message formats.

(OR)

- (b) Explain the architecture, and working principles of DNS in web communication. (14) 1 2
12. (a) Design an HTML table to display the monthly calendar of “MAY 2024”. (14) 2 3
- (OR)
- (b) Designing a web page layout using HTML frames to create a navigation menu on the left side, a main content area on the right side, a header on the top, and a footer at the bottom also display separate web pages in the respective sections in frames. (14) 2 3
13. (a) Design an HTML form should include fields for the following information: (14) 3 3  
Participant's full name, Email address, Contact number, Affiliation (Student, Faculty, Industry Professional), Workshop date preference (Dropdown menu with options: Morning session, Afternoon session, Full-day), Dietary restrictions (Checkbox options: Vegetarian, Vegan, Gluten-free, None) and Additional comments or special requests (Textarea).
- (OR)
- (b) Develop an HTML web page with CSS properties used in the website's design. These could include but are not limited to: (14) 3 3
- Font properties (e.g., font-family, font-size, font-weight)
  - Color properties (e.g., color, background-color)
  - Box model properties (e.g., padding, margin, border)
  - Layout properties (e.g., display, position, float)
14. (a) Write a JavaScript program to find the sum of prime numbers between the range of 500 to 100. (14) 4 4
- (OR)
- (b) Write a JavaScript program to reverse the given number and find the sum of factors of the reversed number. (14) 4 4  
[Hint: input: 12; the reversed number is 21, factors of 21 is 1+3+7+21=32]
15. (a) Describe the lifecycle phases of a Java Servlet and explain their significance (14) 5 2
- (OR)
- (b) Explain how Java Servlets handle HTTP requests and generate responses. (14) 5 2  
Outline the process of receiving request data, parsing parameters, and generating dynamic content for the response.

**PART- C (1 x 10 = 10 Marks)**

(Q.No.16 is compulsory)

Marks CO RBT  
LEVEL

- 16.** Create a JavaScript program that implements the ticket booking system according to the given requirements. Use a switch-case statement to handle different movie selections and calculate the total cost based on the selected movie and the number of tickets. Ensure that the program handles invalid inputs. **(10) 4 5**

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