

TE Sem IV 'C' scheme Summer 2025

Duration: 3hrs

Max Marks: 80

CMPH

13/06/25

N.B.: (1) Question No 1 is Compulsory.

(2) Attempt any three questions out of the remaining five.

(3) All questions carry equal marks.

(4) Assume suitable data, if required and state it clearly.

1 Attempt any FOUR

[20]

- a What is the difference between PHP and Java Script?
- b Design a basic registration form that contains fields such as First Name, Last name, Mobile No, Email Id and address. Write java script code for validation of the same?
- c What are the characteristics of Rich Internet Application?
- d Discuss any two validation functions in Java Script?
- e What is React JS? Explain React components?

2 a Explain the concept of AJAX and how it differs from traditional web development approaches? [10]

b How does PHP handle session tracking and user authentication? Provide an example of a login system using PHP and MySQL? [10]

3 a Develop the CSS code to apply the following styles to the paragraph below the specified heading: [10]

- Utilize a yellow text color
- Set the font size to 25px
- Apply a bold font style

b Examine the concept of JSON by inspecting its structure and function, and categorize its usage with an example that demonstrates how data is represented and exchanged in web applications? [10]

4 a Create an HTML page that displays the message "Responsive Design in Action." Write a media query that changes the background color to light blue when the browser window is 500px wide or less, and otherwise keeps the background color as white? [10]

b What is the purpose of using regular expressions in JavaScript? How can regular expressions be utilized to validate email addresses, and how would you incorporate JSON in the process? [10]

5 a Explain the differences between the HTTP GET and POST methods and evaluate their appropriate usage scenarios with practical examples? [10]

b Write a PHP program that tests whether an email address is input correctly. Test your program with both valid and invalid email addresses? [10]

6 a Construct a JavaScript function that returns the Fibonacci sequence up to a given number, utilizing memorization for optimized performance? [10]

b Describe the role of JSX (JavaScript XML) in React. How does JSX help simplify the development of the user interface for your task management application? [10]
