KT / Comp

K. J. Somaiya Institute of Technology, Sion, Mumbai-22
(Autonomous College Affiliated to University of Mumbai)

Nov / Dec 2025-2026
(B. Tech.) Program: Computer Engineering Scheme: IIB
Regular: TY Semester: V
Course Code: CEDLC5052 and Course Name: Internet Programming
Date of Exam: 28/11/25 Duration: 02.5 Hours Max. Marks: 60

Instructions:
(1)All questions are compulsory.
(2)Draw neat diagrams wherever applicable.
(3)Assume suitable data, if necessary.

Q. No.	Question	Max. Marks	CO	BT level
Q 1	Solve any two questions out of three: (05 marks each)	10		
a)	**Explain** the difference between a **Web Client** and a **Web Server** and briefly describe the function of a **Basic Internet Protocol** other than HTTP.		CO1	U
b)	**Demonstrate** how **DHTML with JavaScript** can be used to dynamically hide and show a block of text based on a user event (e.g., clicking a button).		CO2	Ap
c)	**Develop** an HTML structure that uses CSS3 **Transformation** and **Animation** properties to make an element move and change size when the page loads.		CO1	Ap
Q 2	Solve any two questions out of three: (05 marks each)	10		
a)	**Illustrate** the concept of **Rule Cascading** and **Inheritance** in CSS. Provide a short code example where cascading rules determine the final style of an HTML element.		CO1	Ap
b)	**Apply JSON** to structure data for a simple user profile (Name, Email, Age). Write a JavaScript code snippet to read this JSON structure and display the data on the webpage.		CO2	Ap
c)	**Utilize PHP** to connect to a **MySQL database** and perform a simple data retrieval operation (SELECT). Outline the steps and commands required.		CO5	Ap
Q.3	Solve any two questions out of three. (10 marks each)	20		

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a)	Apply the steps required to install and configure the Apache Tomcat web server in order to deploy a Java-based web application.		CO1	Ap
b)	Apply JavaScript (DOM, events, regex, exceptions, validation, jQuery) and JSON (syntax, functions, HTTP requests) to develop a dynamic web page that processes and displays user data.		CO2	Ap
c)	**Explain** the **React features** that contribute to developing responsive web applications. **Develop** a basic JavaScript/React code structure demonstrating how a simple application can use **JSX** to output content.		CO6	Ap
Q.4	Solve any two questions out of three. (10 marks each)	20		
a)	**Describe** the steps involved in **Installing and Configuring the Apache Tomcat Web Server** for deploying Java-based web applications.		CO3	U
b)	**Construct** a structured data model using **XML Schema**. Compare and contrast **XML Schema** with **DTD (Document Type Definition)** in terms of their capabilities and limitations.		CO5	Ap
c)	**Describe** the characteristics of a **Rich Internet Application (RIA)**. Illustrate how **AJAX** helps achieve these characteristics by comparing the AJAX approach versus the traditional web approach.		CO4	U

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