

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

~~Nov / Dec 2024~~ **Jan / Feb 2025**

(B. Tech.) Program: Computer Engineering Scheme: IIB
Supplementary Regular: TY Semester: V
 Course Code: CEDLC5052 and Course Name: Internet Programming
 Date of Exam: ~~29/11/2024~~ Duration: 02.5 Hours Max. Marks: 60
06-02-25

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)	Create a JavaScript function to display the current date and time on a webpage using the Date object. Hint: Utilize methods such as getDate(), getMonth(), and getFullYear()		CO2	Ap
b)	Demonstrate how JSON is used in web applications for data exchange by providing a practical example.		CO3	U
c)	Create a simple HTML5 form with input controls (like text fields, radio buttons, and a submit button). Use the drag-and-drop feature to allow users to upload a file.		CO1	Ap
Q 2	Solve any two questions out of three: (05 marks each)	10		
a)	Apply the Bootstrap grid system to construct responsive layouts, and develop examples to demonstrate its practical use in web design.		CO1	Ap
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..		CO2	Ap
c)	Utilize the concepts of entities and attributes in XML to construct a structured data model, and develop examples to demonstrate their practical application.		CO5	Ap
Q.3	Solve any two questions out of three. (10 marks each)	20		
a)	Develop the CSS code to apply the following styles to the paragraph below the specified heading:		CO1	Ap

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	● Utilize a yellow text color ● Set the font size to 25px ● Apply a bold font style			
b)	Construct a JavaScript function that returns the Fibonacci sequence up to a given number, utilizing memoization for optimized performance.		CO2	Ap
c)	Develop a simple ReactJS application for a student information management system. The school has provided the following requirements: 1. How will you display a list of students with their names and grades on the main page? 2. How can you allow the user to add a new student using an input form? 3. Once a student is added, how will you ensure that the list automatically updates to include the new entry? 4. How will you implement a button next to each student to allow the user to remove them from the list if needed.		CO6	Ap
Q.4	Solve any two questions out of three. (10 marks each)	20		
a)	Explain Java servlet architecture in detail		CO3	U
b)	Identify and apply the necessary steps to connect a Java application to a database, and construct the connection process using appropriate tools and techniques.		CO5	Ap
c)	Explain Rich Internet Application (RIA) implementation using Ajax with diagram.		CO4	U
