

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

Nov – Dec 2025		
(B.Tech) Program: Computer Engineering Scheme: III		
Regular Examination: TY Semester: V		
Course Code: CEDLC5062 and Course Name: Internet Programming		
Date of Exam: 28/11/2025	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.			
a)	Explain Simple Mail Transfer Protocol and File Transfer Protocol.	05	CO1	U
b)	Explain Color theory, Typography, Spacing, User flow Diagrams with reference to UI UX design.	05	CO2	U
c)	Explain jQuery ajax() methods with suitable example.	05	CO3	U
Q 2	Solve any two questions out of three.			
a)	Explain the process flow of Traditional web application considering entities like User, Web browser and Web server	05	CO4	U
b)	Design RESTful API that manages a Product collection: Define a Product schema (name, price, inStock), and implement routes to create a new product, update a product's price, and delete a product (Use Node.js, Express and Mongoose for implementation)	05	CO5	Ap
c)	Build a Filterable Product Catalog React app considering following requirements: - A parent component holds a list of products in its state using useState. - A child component displays a search input via props as the user types, update state to filter products. - Use conditional rendering to show "No products found" if the filter returns an empty list.	05	CO6	Ap

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Q.3	Solve any two questions out of three.			
a)	Explain characteristics of Rich Internet Applications.	10	CO4	U
b)	Build a product submission feature where a form (name, price, description) in index.html sends data via jQuery AJAX to a PHP script add_product.php, which validates the input and returns a JSON response. Display a confirmation message on the page based on the JSON, without reloading the page.	10	CO5	Ap
c)	Design a MERN-stack app where the React frontend calls Express APIs to CRUD a Product model in MongoDB.	10	CO6	Ap
Q.4	Solve any two questions out of three.			
a)	Design a complete HTML5 webpage for the Computer Engineering Department using semantic elements. The webpage should include Header with department name and logo, Navigation menu with links: Home, Faculty, Courses, Internship, Industrial Visit, Table showing courses, List of department student achievements, A form for student enquiry and footer.	10	CO1	Ap
b)	Write a short note on I. Types of CSS II. Bootstrap grid system.	10	CO2	U
c)	Explain JavaScript HTML DOM and its Events .Consider suitable use case and write java script code to demonstrate these events.	10	CO3	Ap
