

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

~~Supplementary Exam~~ ~~Nov-Dec 2025~~ ~~Jan. 2026~~

B. Tech. Program: Information Technology Scheme: III

Regular Examination: TY Semester: V

Course Code: ITC 501 and Course Name: Internet Programming

Date of Exam: ~~24/11/2025~~ 28/01/2026

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 <b>two</b> questions out of three: (05 marks each)	10		
a)	Differentiate between HTTP and HTTPS.		CO1	U
b)	Illustrate the routing process and HTTP methods in Express.js.		CO5	A
c)	Describe the creation of class in JavaScript with example.		CO2	A
Q 2	Solve any <b>two</b> questions out of three: (05 marks each)	10		
a)	Describe the Built in user roles in MongoDB.		CO6	U
b)	Discuss the React Flux Architecture and data flow with neat diagram.		CO3	U
c)	Describe the phases and working of Event Loops in Node.js with neat diagram and example.		CO4	A
Q.3	Solve any <b>two</b> questions out of three. (10 marks each)	20		
a)	Describe the ES6 Generator function with example. Create a program to use yield() and next() method in Generator function.		CO2	A
b)	Define a Single Page Application. Explain the role of React Router in SPA routing with an example that uses <BrowserRouter>, <Routes>, <Route>, and navigation links.		CO3	A
c)	Describe the integration of Express and Mongoose for MongoDB operations. Give the steps for creating a REST API and provide an example demonstrating schema creation, connection, and a CRUD operation.		CO6	A
Q.4	Solve any <b>two</b> questions out of three. (10 marks each)	20		

Seat No.:

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a)	Explain the method in Networking module, with example to create a server using the net module that returns "Welcome to Node.js Server" to any client connection.		CO4	A
b)	Differentiate between MySQL and MongoDB. Write command creating database, create collection and insert document and CRUD operation with example.		CO6	A
c)	Define the React Hooks. List the built in Hooks in React. Apply the custom Hooks with example.		CO3	A

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