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

Nov – Dec 2025
B. Tech. Program: Information Technology Scheme:III
Regular Examination: TY   Semester: V
Course Code: ITC 501and Course Name: Internet Programming
Duration: 02.5 Hours   Max. Marks: 60

Date of Exam: 24/11/25

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)	Describe the features of HTTP protocol.		CO1	U
b)	Explain the Node.js EventEmitter. List all the important methods of EventEmitter class.		CO4	U
c)	What are the Functional components in ReactJS? Construct the program using it.		CO3	A
Q 2	Solve any **two** questions out of three: (05 marks each)	10		
a)	Differentiate between ES5 and ES6.		CO2	U
b)	List and Explain key components of MongoDB architecture.		CO6	A
c)	Illustrate the routing process and HTTP methods in Express.js with example.		CO5	U
Q.3	Solve any **two** questions out of three. (10 marks each)	20		
a)	Define the React Hooks. List the built in Hooks in React. Apply the custom Hooks with example.		CO3	A
b)	Describe the ES6 Generator function with example. Create a program to use yield() and next() method in Generator function.		CO2	A
c)	Difference between RDBMS and MongoDB. Write command creating database, create collection and insert document and CRUD operation with example.		CO6	A
Q.4	Solve any **two** questions out of three. (10 marks each)	20		
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

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			CO6	A
b)	Describe the MongoDB data types. Write command creating database, create collection and insert document and CRUD operation with example.			
			CO3	A
c)	Describe Controlled and Uncontrolled components in react forms with example.			

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