

K. J. Somaiya Institute of Engineering and Information Technology, Sion, Mumbai-22

(Autonomous College Affiliated to University of Mumbai)

End Semester Exam

Nov 2021 – Dec 2021

B.Tech Program: Information Technology

Examination: TY Semester: V

Course Code: IUITC501 and Course Name: Internet Programming

Duration: 03 Hours

Max. Marks: 60

Instructions:

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

		Max. Marks
Q 1	Solve any six questions out of eight:	12
i)	Distinguish between GET and POST method	2
ii)	Define the let and const keywords.	2
iii)	Describe the state in React and how is it used?	2
iv)	Describe the Flux in React?	2
v)	List and explain the lifecycle methods of components.	2
vi)	Explain the use of render() in React.	2
vii)	Define the NPM.	2
viii)	Describe the features of ExpressJS.	2
Q.2	Solve any four questions out of six.	16
i)	Describe the concepts of Elements and Attributes in XML.	4
ii)	Write JavaScript program for illustrating the multilevel inheritance.	4

iii)	Illustrate the steps with example to start with React application.	4
iv)	Describe the React Hooks. Apply the concept for creating Custom Hook.	4
v)	Sketch the neat diagram for describing the phases and working of Event Loops in Node.js with example.	4
vi)	Develop the program for the Express session management and explain.	4
Q.3	Solve any two questions out of three.	16
i)	Describe the JSON with features and advantage. Explain the JSON object with example.	8
ii)	Define Optimization? What is a Module Bundler? Explain Webpack as module bundler.	8
iii)	Develop the program for applying the ExpressJS authentication with application.	8
Q.4	Solve any two questions out of three.	16
i)	Create the React program for animation and describe all the steps in React animation.	8
ii)	Describe the ES6 Generator function with example. Create a program to use yield() and next() method in Generator function.	8
iii)	Describe the Node.js web module. Design a program for creating web server using Node.js	8