

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

Nov – Dec 2023

B.Tech. Program: Information Technology Scheme:II

Examination: TY Semester: V

Course Code: ITC501 and Course Name: Internet Programming

Date of Exam: 28/11/23

Duration: 2.5 Hours

Max. Marks: 60

Instructions:

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

		Max. Marks	CO	BT level
Q 1	Solve any six questions out of eight:	12		
i)	What is DOM? List the different types of DOM.	2	CO1	U
ii)	List down advantages of Arrow Function.	2	CO2	U
iii)	What is useRef()? How to use it in React?	2	CO4	A
iv)	List the built in Hooks in React.	2	CO4	U
v)	Define the callbacks in Node.js.	2	CO5	U
vi)	Define is the class components in ReactJS	2	CO3	R
vii)	Describe the features of ExpressJS.	2	CO6	U
viii)	List all the important methods of EventEmitter class.	2	CO5	AN
Q.2	Solve any four questions out of six.	16		
i)	Describe the concepts of Elements and Attributes in XML.	4	CO1	U
ii)	Develop a webpage for a program to Sort Words in Alphabetical Order using ES6.	04	CO2	A
iii)	Illustrate the steps with example to start with React application.	4	CO3	A
iv)	Describe the MVC framework with diagram.	04	CO4	U
v)	Explain Node.js REPL with example.	4	CO5	C
vi)	Create a program to use Express.js Middleware in application.	04	CO6	C
Q.3	Solve any two questions out of three.	16		
i)	Create Refs in React and add that to DOM Element.	08	CO4	C

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ii)	Construct the program for Creating Web Server using Node.js.	08	CO5	C
iii)	Describe the JSON with features and advantage. Explain the JSON object with example.	8	CO1	A
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	CO3	C
ii)	Construct the program and describe all phases of React Component Life-Cycle.	8	CO6	A
iii)	Create a webpage using JavaScript for display month name according to the month number with switch case.	8	CO2	C
