

Nov - Dec 2022 B.Tech. Program: Information Technology Examination: TY Semester: V Course Code: ITC501 and Course Name: Internet Programming Duration: 2.5 Hours <span style="float: right;">Max. Marks: 60</span>				
Instructions: (1) All questions are compulsory. (2) Draw neat diagrams wherever applicable. (3) Assume suitable data, if necessary.				
		Max. Marks	CO	BT level
<b>Q 1</b>	<b>Solve any six questions out of eight:</b>	<b>12</b>		
i)	Differentiate between SSL and TLS.	02	CO1	An
ii)	Differentiate between ES5 and ES6	02	CO2	An
iii)	Describe the Features of ReactJS	02	CO3	U
iv)	Define the rules of Hooks.	02	CO4	U
v)	Define the callbacks in Node.js.	02	CO5	U
vi)	Define the Middleware function.	02	CO6	U
vii)	Describe the ES6 Iterator.	02	CO2	U
viii)	List the built in Hooks in React.	02	CO4	U
<b>Q.2</b>	<b>Solve any four questions out of six.</b>	<b>16</b>		
i)	What is for...in loop? Create a program in Javascript for showing the use of for...in loop.	04	CO2	U
ii)	Illustrate the steps with example to start with React application.	04	CO3	A
iii)	Differentiate between MVC and Flux.	04	CO4	An
iv)	Explain Node.js REPL with example.	04	CO5	A
v)	Describe the features and advantages of Express.js.	04	CO6	U
vi)	Differentiate between HTTP and HTTPS.	04	CO1	An
<b>Q.3</b>	<b>Solve any two questions out of three.</b>	<b>16</b>		
i)	Describe the concepts of Elements and Attributes in XML with example.	08	CO1	U

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ii)	Discuss the React Flux Architecture and data flow with neat diagram.	08	CO4	U
iii)	Describe the file system in Node.js with read and write operations and its example.	08	CO5	A
<b>Q.4</b>	<b>Solve any two questions out of three.</b>	<b>16</b>		
i)	Develop the JavaScript program for display month name according to the month number with switch case.	08	CO2	C
ii)	Describe React router in detail. Apply it with example.	08	CO3	A
iii)	Describe the RESTful API in Express.js and design the code for GET and POST operation.	08	CO6	A

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