

Feb-March 2024

B.Tech. Program: Information Technology Scheme:II

Examination: TY Semester: V

Course Code: ITC501 and Course Name: Internet Programming

Date of Exam: 27/2/24

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)	Differentiate between SSL and TLS.	02	CO1	An
ii)	Define the let and const keywords.	02	CO2	U
iii)	What is the Functional component?	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)	Illustrate the Anonymous function with example in JavaScript.	02	CO2	U
viii)	What is useRef()? How to use it in React?	02	CO4	U
Q.2	Solve any four questions out of six.	16		
i)	Describe the concepts of Elements and Attributes in XML.	04	CO1	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)	Describe Web Application Architecture in Node.js with diagram.	04	CO5	U
v)	Illustrate the routing process and HTTP methods in Express.js	04	CO6	U
vi)	Differentiate between ES5 and ES6 with example.	04	CO2	An
Q.3	Solve any two questions out of three.	16		
i)	What is DNS? Illustrate the working of DNS.	08	CO1	U
ii)	What is a Module Bundler? Explain Webpack as module bundler wit	08	CO4	A

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	example.			
iii)	Describe reading and writing in stream of Node.js with example.	08	CO5	A
Q.4	Solve any two questions out of three.	16		
i)	Create a webpage using JavaScript to Convert String To UpperCase LowerCase.	08	CO2	C
ii)	Describe the RESTful API in Express.js and design the code for GET and POST operation.	08	CO6	A
iii)	Describe React router in detail. Apply it with example.	08	CO3	A
