

Register Number

Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam – 603 110
(An Autonomous Institution, Affiliated to Anna University, Chennai)

Department of Computer Science and Engineering

Continuous Assessment Test – III

Question Paper

Degree & Branch	B.E Computer Science and Engineering			Semester	VI
Subject Code & Name	UCS1601 – Internet Programming			Regulation:	2018
Academic Year	2021-2022 (Even)	Batch	2019-2023	Date	01.06.2022
Time: 8:30 – 10:00AM (90 Minutes)	Answer All Questions			Maximum: 50 Marks	

Part – A (6×2 = 12 Marks)

<K2>	1. Explain with an example code, how the URL module in Node JS could split up a web address into readable parts.	<CO5>
<K3>	2. Using Javascript map () array function, develop a code that will render the given React list with some loop.	<CO4>
<K2>	3. Explain the ternary conditional operator in JSX with an example.	<CO4>
<K3>	4. Develop a code for the usage of clickable event in React JS using arrow function.	<CO4>
<K2>	5. Illustrate how does virtual DOM increase the performance of Web applications.	<CO4>
<K2>	6. Explain the <i>onreadystatechange</i> and <i>readystatechange</i> properties of XMLHttpRequest object.	<CO3>

Part – B (3×6 = 18 Marks)

<K3>	<p>7. Develop an AJAX program that implements the Autocomplete feature for filling the country names as given below:</p> <div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: fit-content;"> <p>Country: <input type="text" value="n"/></p> <ul style="list-style-type: none"> Namibia Nauru Nepal Netherlands New Zealand Nicaragua Niger Nigeria Norway </div> <p>For Example, when N is entered, all the names of the country starting with “N” should be listed in drop-down list for user’s easy selection. When “Na” is typed, only “Namibia” and “Nauru” should be listed for selection. Use XML database to store the names of countries.</p>	<CO3>
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<K2>	8. Explain the different types of components in ReactJS with suitable examples.	<CO4>
<K3>	9. Develop a NodeJS program to convert the given string into uppercase using user defined modules.	<CO5>

Part – C (2×10 = 20 Marks)

<K3>	<p>10. Develop a Single Page Application for “Starbucks Coffee House” like the following figure using ReactJS. The webpage should have a header and footer. When the user moves from one link to another link, the corresponding contents should be displayed.</p> <p align="center">Starbucks Coffee House</p> <hr/> <p><u>Menu</u> <u>Store Locations</u> <u>Careers</u> <u>About Us</u></p> <p>You clicked menu</p> <p>.....</p> <hr/> <p>Footer</p>	<CO4>
(OR)		
<K3>	11. Using forms in React, develop an application to obtain the Register Number of the student and the Name of the department he/she belongs to. Before moving to the next page, get a confirmation from the user by displaying the obtained details in an alert message.	<CO4>
<K2>	12. Explain how user-defined events are created, emitted, and handled in NodeJS with a suitable example.	<CO5>
(OR)		
<K2>	<p>13. Explain with relevant NodeJS codes, the various file handling operations like:</p> <ol style="list-style-type: none"> Reading a file Creating a file Updating the file Renaming the file Deleting the file 	<CO5>