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| KONGU ENGINEERING COLLEGE, PERUNDURAI - 638 060 |
| CONTINUOUS ASSESSMENT TEST – I |
| (Regulation 2020) |

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| Month and Year | : | September2023 | Roll Number | : |  |
| Programme | : | B.Tech. | Date | : | 02.09.2023 |
| Branch | : | IT | Time | : | 2:30PM to 4:00PM |
| Semester | : | V | Duration | : | 1 ½ Hours |
| Course Code | : | 20ITE03 | Max. Marks | : | 50 |
| Course Name | : | User Interface Design |  |  |  |

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| **PART - A (10 × 2 = 20 Marks)** | | | | | |
| **ANSWER ALL THE QUESTIONS** | | | | | |
| 1. | List out the advantages of React. | | | CO1 | K1 |
| 2. | Write the syntax of writing Arrow function with two parameters. Give Example. | | | CO1 | K2 |
| 3. | Compare DOM with Virtual DOM. | | | CO1 | K2 |
| 4. | Recall the purpose of render() in React. | | | CO1 | K1 |
| 5. | Write a program for creating an h1 element that displays “Hello” using JSX. | | | CO1 | K3 |
| 6. | Write a program for creating an element that displays “Welcome to react” by applying inline styles. | | | CO1 | K3 |
| 7. | Create an array of fruits containing Apple, Mango, Orange, Melon and Grapes. Write a ReactJS program to display only the fruits name that starts with “a” using filter function. | | | CO2 | K3 |
| 8. | Create a component that renders an ordered list that denotes different categories of books with necessary list items. | | | CO2 | K1 |
| 9. | Specify the need for fragments in ReactJS? Give an example. | | | CO2 | K2 |
| 10. | List out the parameters used in ReactDom.Render statement. | | | CO1 | K1 |
| **Part – B (3× 10 = 30 Marks)** | | | | | |
| **ANSWER ANY THREE QUESTIONS** | | | | | |
| 11. | i) | Create a JavaScript Object to store Employee information (Employee id, Employee Name, Designation, salary) and write a functional component to display the Employee information. | (6) | CO1 | K3 |
|  | ii) | Write a JavaScript code to read an input string and display the characters at odd position of that string. | (4) | CO1 | K3 |
| 12. |  | Illustrate the different ways of applying styles to react components. Give suitable example with necessary files. | (10) | CO1 | K2 |
| 13. | i) | Describe about functional components and class components in detail. | (5) | CO2 | K2 |
|  | ii) | Create a class component for storing product information and initialize constructor to retrieve product id. Use props to display the product information. | (5) | CO2 | K3 |
| 14. | i) | Create a ReactJS based web application for online shopping system and include the necessary components. Show index.js, App.css and necessary components file with required styling features. | (10) | CO2 | K3 |

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| Bloom’s Taxonomy  Level | Remembering  (K1) | Understanding  (K2) | Applying  (K3) | Analysing  (K4) | Evaluating  (K5) | Creating  (K6) |
| Percentage | 14.00 | 35.00 | 51.00 |  |  |  |