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| **KONGU ENGINEERING COLLEGE, PERUNDURAI - 638 060** |
| **SEMESTER ODD|CONTINUOUS ASSESSMENT TEST – III** |
| (Regulations **2020**) |

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| Month and Year | : | August2023 | Roll Number | : |  |
| Programme | : | B.Tech. | Date | : | 18.11.2023 |
| Branch | : | IT | Time | : | 02.30pm - 04.00pm |
| Semester | : | V | Duration | : | 1½ 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** | | | | | |
|  | Display the following array, fruits=["Apple","Orange","Grapes"] as a HTML list using map method with keys. | | | CO2 | K3 |
|  | Compare controlled component and uncontrolled component. | | | CO2 | K1 |
|  | Identify the purpose of Bind. | | | CO2 | K1 |
|  | Recall any four methods associated with event handling in ReactJS. | | | CO3 | K1 |
|  | Provide a simple example for conditional rendering. | | | CO3 | K2 |
|  | Compare useState hook with state object in class component. | | | CO3 | K1 |
|  | State the importance of routing in ReactJS. | | | CO3 | K1 |
|  | Tell the syntax and applications of useEffect hook. | | | CO3 | K1 |
|  | List the advantages of Redux. | | | CO2 | K2 |
|  | Write a simple program using useState. | | | CO3 | K3 |
| **Part – B (3 × 10 = 30 Marks)** | | | | | |
| **ANSWER ANY THREE QUESTIONS** | | | | | |
| 11. | i) | Outline the advantages of react hooks and explain any 4 hooks with example code. | (10) | CO5 | K2 |
| 12. | i) | Develop a React application using Uncontrolled components to read Product  information (PID, Name, Price) from user and validate the same using following  conditions,  PID – 3 digit number  Name – all alphabets only  Price – number | (10) | CO4 | K3 |
| 13. | i)  ii) | Illustrate Redux architecture with a neat diagram and Develop a react application using Redux to manage the available seats in the restaurant, based on the user checkin and check out process, Consider the maximum capacity is 50.  Tell about routing in ReactJS and Provide Routing code for the following application, an e-commerce website build with following components for Home, Products, Cart, and Contact, with routing to navigate between these components using a navigation bar. | (6)  (4) | CO5  CO5 | K2  K2 |
| 14. |  | Design a controlled component form to collect employee details like EID,Employee Name, Designation, Department, Mobile Number and display the information in the web page | (10) | CO4 | K3 |

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| Bloom’s Taxonomy Level | Remembering  (K1) | Understanding  (K2) | Applying  (K3) | Analysing  (K4) | Evaluating  (K5) | Creating  (K6) |
| Percentage | 20 | 40 | 40 |  |  |  |