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

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| Month and Year | : | August2023 | Roll Number | : |  |
| Programme | : | B.Tech. | Date | : | 09.10.2023 |
| 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** | | | | | |
|  | Define Composing Components. | | | CO2 | K1 |
|  | //BookItem.js  import React from 'react';  function BookItem({ title, author })  {  return (  {title} by {author}  ); }  export default BookItem;  Develop a component to extract the title and author details from the BookItem Component. | | | CO2 | K3 |
|  | Classify the various methods for styling the components. | | | CO2 | K2 |
|  | Show the various methods through which media queries support responsiveness. | | | CO2 | K1 |
|  | What is a state in react? | | | CO3 | K1 |
|  | List the steps to pass props between components with an example. | | | CO3 | K1 |
|  | Compare Props and State. | | | CO3 | K2 |
|  | Mention the usage of setState() method in react with an example. | | | CO3 | K2 |
|  | Recall the React component lifecycle method which is used for cleanup operation. | | | CO3 | K1 |
|  | List the propTypes used for validating the user input. | | | CO3 | K1 |
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| **Part – B (3 × 10 = 30 Marks)** | | | | | |
| **ANSWER ANY THREE QUESTIONS** | | | | | |
| 11. |  | Classify the various methods for styling the components. Illustrate through suitable example. | (10) | CO2 | K2 |
| 12. |  | Illustrate the react Banking Component to maintain the account balance of the customers. The account balance of the customers should be updated through state. Create a component that should get the amount value from the user and if the user clicks the button (Deposit/Withdraw), then the account balance should be updated. | (10) | CO3 | K2 |
| 13. |  | Develop a React application that simulates a product list along with image. Create two components such as ProductList and AddProduct. The ProductList component should manage the list of products. The AddProduct component is used to add a new product to the product list. Use props to pass message between the components. | (10) | CO3 | K3 |
| 14. |  | Develop a React application that fetches data from an API when a component is mounted and needs to clean up resources when the component is unmounted. Write a React component that accomplishes this using the appropriate lifecycle methods. | (10) | CO3 | K3 |

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| Bloom’s Taxonomy Level | Remembering  (K1) | Understanding  (K2) | Applying  (K3) | Analysing  (K4) | Evaluating  (K5) | Creating  (K6) |
| Percentage | 20 | 43 | 37 |  |  |  |