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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** | | | | | |
|  | Consider the following reusable component  // Task.js  import React from 'react';  const Task = ({ title, description }) => {  return (  <div className="task">  <h3>{title}</h3>  <p>{description}</p>  </div>  );  };  export default Task;  Provide a TaskList component which reuses the above Task Component. | | | CO2 | K3 |
|  | Give an Example for styled-components. | | | CO2 | K1 |
|  | Tell the tag which is used to display the web pages in mobile devices. | | | CO2 | K1 |
|  | Mention the purpose of using PropTypes in React, and what types of validation can you perform with them? | | | CO3 | K1 |
|  | Compose a simple profile components using props(Minimum 3 Components must be nested all with Props) | | | CO3 | K2 |
|  | Compare this.state with usestate. | | | CO3 | K1 |
|  | Draw flow of sequence on react lifecycle components | | | CO3 | K1 |
|  | Identify the need of state in reactjs and say how it differs from props with example. | | | CO3 | K1 |
|  | Extract a simple login component with name and role, Based on the role(admin,user) necessary component can be called(Conditional Rendering). | | | CO2 | K2 |
|  | Create a ReactJS program to increment a counter by 5 whenever a button is clicked. | | | CO3 | K3 |
| **Part – B (3 × 10 = 30 Marks)** | | | | | |
| **ANSWER ANY THREE QUESTIONS** | | | | | |
| 11. |  | Illustrate following types of styling components with example  (i)Inline  (ii)Internal  (iii)External  (iv) Module based CSS | (10) | CO2 | K2 |

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| 12. |  | Build a quiz application using ReactJS for an online learning platform. The application should allow users to take quizzes on various topics. Each quiz consists of multiple-choice questions, and users can select answers for each question. After completing the quiz, users should see their score.  Each question will have the following structure:  {  "id": 1,  "question": "What is the capital of France?",  "options": ["Berlin", "Madrid", "Paris", "Rome"],  "correctAnswer": "Paris"  } | (10) | CO3 | K3 |
| 13. | i) | Demonstrate extracting components with props with suitable examples. | (5) | CO3 | K2 |
|  | ii) | Demonstrate note on props, state initialization and update with examples. | (5) | CO3 | K2 |
| 14. |  | Illustrate on React Lifecycle with Application. | (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 | 40 | 40 |  |  |  |