

M.Sc.(IT & CA) Semester - 2 (CBCS) Examination
March/April – 2024 (As Per Syllabus Year-2023)
React JS and Express JS (Core)

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Que.1(A) Answer the following questions. (03)
- 1) _____ keyword is used to declare a variable in JavaScript
 - 2) What is the difference between "==" and "===" operators in JavaScript?
 - 3) What does the "typeof" operator return when applied to a number in JavaScript?
- Que.1(B) Answer the following question. (Any Two) (06)
- 1) Explain Array in JavaScript
 - 2) Explain Looping Statement in JavaScript
 - 3) Explain ES6 Classes
 - 4) Explain ES6 functions
- Que.1(C) Answer the following question. (Any one) (05)
- 1) Explain JavaScript Conditional Statements, With Suitable example
 - 2) What is Express JS.
- Que.2(A) Answer the following questions. (03)
- 1) Full Form of JSX.
 - 2) To create a basic React component, you can use either a _____ component or a _____ component.
 - 3) In ReactJS, what method is commonly used to update the state of a component?
- Que.2(B) Answer the following question. (Any Two) (06)
- 1) What is ReactJS?
 - 2) What is components.
 - 3) What is JSX.
 - 4) Explain ReactJS Folder Structures
- Que.2(C) Answer the following question. (Any one) (05)
- 1) Write a Step to Installation or Setup ReactJS With Hello World Program
 - 2) Explain ReactJS Props With Suitable Example.
- Que.3(A) Answer the following questions. (03)
- 1) In ReactJS, _____ are used to group multiple elements without adding extra nodes to the DOM
 - 2) In ReactJS, _____ are used to handle user inputs within forms.
 - 3) In ReactJS, _____ are used to specify what happens when certain events occur, such as a button click or input change.
- Que.3(B) Answer the following question. (Any Two) (06)
- 1) What is Event Handling.
 - 2) Explain Conditional Rendering and List Rendering.
 - 3) Explain Basic form handling.
 - 4) What is Fragments.
- Que.3(C) Answer the following question. (Any one) (05)
- 1) Explain Components Mounting Lifecycle methods.
 - 2) Explain Components Updating Lifecycle methods.

- Que.4(A) Answer the following questions. (03)
- 1) In ReactJS, _____ are used for optimizing performance
 - 2) In ReactJS, _____ are used to manage focus, text selection, or media playback.
 - 3) In ReactJS, _____ are used to pass data from a parent component to a child component.
- Que.4(B) Answer the following question. (Any Two) (06)
- 1) What is Memo.
 - 2) Explain Props.
 - 3) Explain Higher Order Components.
 - 4) Explain Refs
- Que.4(C) Answer the following question. (Any one) (05)
- 1) Explain HTTP and React.
 - 2) Explain GET and React, POST and React.
- Que.5(A) Answer the following questions. (03)
- 1) In ReactJS, _____ are functions that allow you to use state and other React features in functional components
 - 2) In ReactJS, the useState hook is used for _____.
 - 3) In ReactJS, the useEffect hook is used for _____.
- Que.5(B) Answer the following question. (Any Two) (06)
- 1) Explain useState with array.
 - 2) Explain What is useEffect:
 - 3) Explain useReducer simple state and action,
 - 4) Explain useState with object.
- Que.5(C) Answer the following question. (Any one) (05)
- 1) Describe React Hooks and their importance in modern React development, detailing three different hooks and comparing useState with useReducer.
 - 2) Explain Fetching data with useEffect, useContext Hook
