



INSTITUTE OF AERONAUTICAL ENGINEERING (Autonomous)

Dundigal, Hyderabad - 500 043

COMPUTER SCIENCE ENGINEERING (AI & ML)

TUTORIAL QUESTION BANK

Course Title	WEB APPLICATION DEVELOPMENT				
Course Code	AITC09				
Program	B.Tech				
Semester	IV	CSE (AI & ML)			
Course Type	Core				
Regulation	UG20				
Course Structure	Theory			Practical	
	Lecture	Tutorials	Credits	Laboratory	Credits
	3	-	3	-	-
Course Coordinator	Mrs. S. ASWANI, Assistant Professor				

COURSE OBJECTIVES:

The students will try to learn:

I	The characteristics, systematic methods, model for developing web applications.
II	The fundamentals of HTML and CSS to design static and dynamic web pages.
III	The concepts of client - server programming with JavaScript, Servlets, JSX.
IV	The MVC architecture, about React and built single and multiple page applications using REACT with REDUX.

COURSE OUTCOMES:

After successful completion of the course, students should be able to:

CO 1	Classify HTML elements and attributes for structuring and presenting content of webpage based on the requirement .	Understand
CO 2	Demonstrate CSS properties, for formatting webpages.	Understand
CO 3	Develop responsive webpage using Bootstrap for viewing web pages in various devices.	Apply
CO 4	Utilize the concepts of JS with event actions for displaying information on webpages.	Apply
CO 5	Identify UI binding library elements for deploying a reusable complex UI.	Apply
CO 6	Build a native web application with the help of React framework.	Apply

QUESTION BANK:

Q.No	QUESTION	Taxonomy	How does this subsume the level	CO's
MODULE I				
INTRODUCTION TO WEB APPLICATION AND HYPERTEXT MODELLING				
PART A-PROBLEM SOLVING AND CRITICAL THINKING QUESTIONS				
1	Write a program for Shifting Images Between Transparent and Opaque	Remember	Recall the concept of CSS for Shifting Images using "filter" and "opacity" attributes.	CO 1
2	Design a web application with paragraph tag and use some text formatting tags.	Understand	Recall the concept of HTML and CSS Paragraph formatting	CO 1
3	Design the webpage while defining different elements under the fieldset.	Analyze	Recall the concept of Fieldset .	CO 3
4	Design the static web pages required for an online book store web site	Remember	Recall the concept of HTML elements and attributes and use them to Design Home page	CO 2
5	Embed Audio and Video into your HTML web page	Understand	Recall the concept of audio video tags	CO 1
6	Create a webpage with HTML describing your department	Remember	Recall the concept of Layout design and navigation creation	CO 1
7	Write a program and Apply various colors to suitably distinguish key words, also apply font styling like italics, underline and two other fonts to words you find appropriate, also use header tags	Understand	Recall the concept of text formatting tags and use them	CO2
8	Write a program to display the images scrolling, text scrolling	Understand	Recall the concept of Marquee tag and img tags	CO 2
9	Create your class time table in a webpage.	Understand	Recall the concept of list tags, table tags, div tags and css styles	CO 2
10	Design the static web pages required for an online shopping cart.	Remember	Recall the concept of all HTML and CSS and apply them to develop the shopping cart	CO 2

PART-B LONG ANSWER QUESTIONS				
1	Name some new features which were not present in HTML but are added to HTML5?	Understand	Recall the concept of basic HTML	CO 2
2	What is Anchor tag and how can you open an URL into a new tab when clicked?	Remember	Recall the concept of Anchor tag	CO 1
3	Write an HTML code to form a table to show the below values in a tabular form with heading as Roll No., Student name, Subject Name, and values as Ram, Physics Shyam, Math Murli, Chemistry	Understand	Recall the concept of basic HTML Table tags	CO 2
4	Explain the structure of the HTML webpage.	Understand	Recall the concept of HTML	CO 2
5	Explain list elements in HTML.	Understand	Recall the concept of Recall the concept of HTML List tags	CO 2
6	Define iframe in HTML.	Understand	Recall the concept of iframe.	CO 1
7	Define forms in HTML.	Understand	Recall the concept of Html forms	CO 1
8	In how many ways can a heading be written in HTML?	Understand	Recall the concept of html heading tags.	CO 1
9	What are the various formatting tags in HTML?.	Remember	Recall the concept of Formatting tags in html	CO 2
10	Explain the layout of HTML.	Understand	Recall the concept of Layout tags in html	CO 1
11	What is the difference between DIV and SPAN in HTML?	Understand	Recall the concept of Div and span tag	CO 2
12	How to make a picture of a background image of a web page?	Understand	Recall the concept of html image tag	CO 2
13	How do you create text on a webpage that allows you to send an email when clicked?	Remember	recall the concept of Html tags	CO 1
14	What is the advantage of grouping several checkboxes together?.	Apply	Recall the concept of Checkboxes	CO 2
15	Explain list elements in HTML.	Remember	Recall the concept of Html list	CO 2
16	What are logical and physical tags in HTML?	Understand	Recall the concept of Html tags	CO 2

17	How can you apply JavaScript to a web page?	Understand	Recall the concept of HTML	CO 2
18	What is the use of a span tag? Give one example.	Understand	Recall the concept of span	CO 2
19	What are the features of HTML?	Understand	Recall the concept of HTML	CO 1
20	What is the difference between HTML elements and tags?	Remember	Recall the concept of HTML	CO 2
PART-C SHORT ANSWER QUESTIONS				
1	What are tags and attributes in HTML?	Remember	Recall the concept of HTML	CO 1
2	What are void elements in HTML?	Remember	Recall the concept of HTML	CO 1
3	What are HTML Entities?	Remember	Recall the concept of HTML Entities	CO 1
4	What is the significance of <code><head></code> and <code><body></code> tag in HTML?	Understand	Recall the concept of HTML	CO 1
5	How is Cell Padding different from Cell Spacing?	Remember	Recall the concept of CSS	CO 1
6	How can we club two or more rows or columns into a single row or column in an HTML table?	Remember	Recall the concept of Table	CO 1
7	Is it possible to change an inline element into a block level element?	Remember	Recall the concept of HTML	CO 1
8	How to handle events in HTML?	Understand	Recall the concept of Event handling attributes	CO 3
9	How can we include video in a webpage?	Remember	Recall the concept of audio video tags in html	CO 2
10	Is drag and drop possible using HTML5 and how?	Remember	Recall the concept of html	CO 2
11	What type of audio files can be played using HTML5?	Remember	Recall the concept of html audio tags	CO 2
12	What is CSS?.	Understand	Recall the concept of CSS	CO 2
13	Discuss about Color attributes	Remember	Recall the concept of css	CO 2
14	Define list and types of lists?	Remember	Recall the concept of Html list tags	CO 1
15	Define Web Application?	Remember	Recall the concept of Web application.	CO 3

16	What is server?	Understand	Recall the concept of introduction to Web application	CO 1
17	List various types of CSS attributes.	Remember	Recall the concept of attributes	CO 2
18	list out some html attributes with example?	Understand	Recall the concept of Html attributes	CO 1
19	define fieldset and legend tag with some examples	Remember	Recall the concept of Html tags	CO 1
20	define how to design the layouts	Remember	Recall the concept of attributes	CO 1

MODULE II				
BUILD INTERFACES USING BOOTSTRAP				
PART-A PROBLEM SOLVING AND CRITICAL THINKING QUESTIONS				
1	Design basic grid system using bootstrap	Understand	Recall the concept of Bootstrap grid system	CO3
2	Design A basic Bootstrap table has a light padding and only horizontal dividers	Apply	Recall the concept of bootstrap padding	CO3
3	Design Bootstrap Jumbotron and Page Header	Understand	Recall the concept of Bootstrap jumptrons and page header	CO5
4	Design user interface Dropdowns through bootstrap	Apply	Recall the concept of Bootstrap dropdown	CO3
5	Define How To Create a Carousel using bootstrap and design Carousel using bootstrap	Understand	Recall the concept of bootstrap carousel	CO3
6	Design Bootstrap Navigation Bar	Understand	Recall the concept of Bootstrap Navigation Bar	CO3
7	Desing a responsive web page using bootstrap	Understand	Recall the concept of Responsive web page design.	CO4
8	1.Creating lists with Bootstrap 2.Bootstrap unstyled ordered and unordered list 3.Placing ordered and unordered list items inline 4.Creating horizontal definition lists with Bootstrap 5.Bootstrap list groups 6.Bootstrap list group with disabled and active items 7.Bootstrap edge-to-edge list groups 8.Bootstrap numbered list groups	Understand	Recall the concept of bootstrap lists.	CO3

9	1.Creating vertical form layouts with Bootstrap 2.Creating horizontal form layouts with Bootstrap 3.Creating inline form layouts with Bootstrap 4.Creating responsive form layouts with Bootstrap 5.Bootstrap static form controls 6.Placing checkboxes inline with Bootstrap 7.Placing radio buttons inline with Bootstrap 8.Height sizing of Inputs and select boxes with Bootstrap 9.Grid sizing of form controls with Bootstrap 10.Disabling form controls with Bootstrap	Understand	Recall the concept of bootstrap forms.	CO3
10	1. Creating buttons with Bootstrap 2.Creating outline buttons styles in Bootstrap 3.Creating large buttons with Bootstrap 4.Creating small buttons with Bootstrap 5.Creating block buttons with Bootstrap 6.Creating disabled Bootstrap buttons using the input and button element	Understand	Recall the concept of bootstrap buttons.	CO3
PART-B LONG ANSWER QUESTIONS				
1	Explain why Bootstrap is preferred for website development.	Understand	Recall the concept of Introduction to web design from an evolutionary perspective, user interface design through bootstrap	CO 3
2	What are the key components of Bootstrap?	Remember	Recall the concept of Introduction to web design from an evolutionary perspective, user interface design through bootstrap	CO 3
3	What are Class loaders in Bootstrap?	Remember	Recall the concept of Introduction to web design from an evolutionary perspective, user interface design through bootstrap	CO 3
4	How many types of layout are available in Bootstrap?	Understand	Recall the concept of Bootstrap layouts.	CO 6

5	Why do we use Jumbotron for Project title in Bootstrap?	Remember	Recall the concept of Bootstrap Jumbotron	CO 3
6	Explain what pagination in bootstrap is and how they are classified?	Remember	Recall the concept of bootstrap pagination	CO 5
7	Explain how you can create Nav elements in Bootstrap?	Understand	Recall the concept of query explains TRC with example.	CO 6
8	Please provide an explanation of input groups in Bootstrap.	Understand	Recall the concept of Bootstrap input groups	CO 3
9	How do you create and customize thumbnails in Bootstrap?	Remember	Recall the concept of Thumbnails	CO 3
10	What are the features of Bootstrap v4?	Remember	Recall the concept of Bootstrap features.	CO3
11	How to visible elements based on device screen?	Remember	Recall the concept of Bootstrap	CO 3
12	What is the grid size in Bootstrap 4?.	Understand	Recall the concept of Bootstrap Gridsize	CO 3
13	What are cards in Bootstrap 4?	Remember	Recall the concept of Cards in Bootstrap	CO 2
14	Explain types of lists supported by Bootstrap.	Remember	Recall the concept of lists in bootstrap	CO 2
15	What is media object in Bootstrap and what are their types?	Remember	Recall the concept of media objects	CO 3
16	What are bootstrap alerts and how will you create them?.	Remember	Recall the concept of bootstrap alerts.	CO 3
17	What are Bootstrap panels? Explain how to create a Bootstrap panel with a heading.	Understand	Recall the concept of bootstrap panels	CO3
18	Why do we need to use Bootstrap?	Remember	Recall the concept of Bootstrap	CO 3
19	What is Button group and which class is used for basic button group?What is the Bootstrap Panel?	Remember	Recall the concept of	CO 3
20	What is Normalize in Bootstrap?	Understand	Recall the concept of Normalize in Bootstrap	CO 3
PART-C SHORT ANSWER QUESTIONS				
1	How can you order columns in Bootstrap?	Remember	Recall the concept of Bootstrap columns.	CO 3

2	How do you make images responsive?	Remember	Recall the concept of responsive images in bootstrap.	CO 3
3	Explain the typography and links in Bootstrap.	Understand	Recall the concept of typography and links in bootstrap.	CO 3
4	Explain types of Cards supported by Bootstrap.	Remember	recall the concept of lists in bootstrap.	CO 3
5	How do you use Glyphicons?	Remember	recall the concept of glyphs	CO 3
6	What is a transition plugin?	Understand	Recall the concept of transition plugin.	CO 3
7	What is a Modal Plugin?	Remember	Recall the concept of Modal plugin	CO 3
8	How do you use the Dropdown plugin?	Remember	Recall the concept of Dropdown plugin	CO 3
6	Which class is used for basic pagination?	Understand	Recall the concept of Basic pagination.	CO 3
9	What is Bootstrap carousel?	Remember	Recall the concept of Bootstrap carousel?	CO3
10	Which class is used for basic button group?	Remember	Recall the concept of Button group	CO 3
11	Which class is used to draw a toolbar of buttons	Remember	Recall the concept of toolbar of buttons.	CO 3
12	Which classes can be applied to button group instead of resizing each button	Remember	Recall the concept of button group in bootstrap.	CO 3
13	Which class make a set of buttons appear vertically stacked rather than horizontally	Understand	Recall the concept of Bootstrap buttons.	CO 2
14	What are input groups	Remember	Recall the concept of input groups in bootstrap?	CO 3
15	How will you create a tabbed navigation menu?	Understand	Recall the concept of navigation menu in bootstrap.	CO 3
16	How will you create a pills navigation menu?	Remember	Recall the concept of pills in navigation menu.	CO 3
17	How will you create a vertical pills navigation menu. ?	Remember	Recall the concept of vertical pills in navigation menu.	CO 5
18	What is bootstrap navbar?	Remember	Recall the concept of navbar in bootstrap	CO 3

19	How to create a Drop down navbar in bootstrap?	Remember	Recall the concept of navbar in bootstrap	CO 3
20	How will you customize links of pagination?	Understand	Recall the concept of links pagination in bootstrap.	CO 3
MODULE III				
INTERACTIVE USER INTERFACE AND WEB APPLICATION DEVELOPMENT				
PART A-PROBLEM SOLVING AND CRITICAL THINKING QUESTIONS				
1	What is the significance of, and reason for, wrapping the entire content of a JavaScript source file in a function block?	Understand	Recall the concept of Javascript	CO4
2	Create “native” methods using javascript?	Understand	Recall the concept of native methods.	CO5
3	Write a sum method which will work properly when invoked using either syntax below. console.log(sum(2,3)); // Outputs 5 console.log(sum(2)(3)); // Outputs 5	Understand	Recall the concept of javascript.	CO6
4	How do you decode or encode a URL in JavaScript?	Understand	Recall the concept of decode and encode in javascript.	CO4
5	Explain what a callback function is and provide a simple example	Apply	Recall the concept of callback function in javascript.	CO 4
6	How to empty an array in JavaScript?	Understand	Recall the concept of Javascript array	CO4
7	How would you use a closure to create a private counter?.	Understand	Recall the concept of Javascript private counter.	CO4
8	How does the this keyword work? Provide some code examples?	Understand	Recall the concept of javascript keywords.	CO4
9	How would you create a private variable in JavaScript?	Understand	Recall the concept of variable creation in javascript.	CO4
10	Write a recursive function that performs a binary search	Understand	Recall the concept of Javascript	CO4
PART-B LONG ANSWER QUESTIONS				
1	explain the various JavaScript data types?	Remember	Recall the concept of javascript datatypes.	CO4
2	Name the types of functions	Understand	Recall the concept of Javascript functions	CO4

3	If we want to return the character from a specific index which method is used?	Remember	–	CO4
4	What are the key differences between Java and JavaScript? / How is JavaScript different from Java?	Understand	Recall the concept of Javascript	CO5
5	What is BOM?	Understand	Recall the concept of Javascript	CO5
6	What is DOM? What is the use of document object?	Remember	Recall the concept of Javascript Dom	CO5
7	What is the use of window object? Explain?	Understand	Recall the concept of Javascript.	CO5
8	How to create a function in JavaScript? define with example?	Understand	Recall the concept of Javascript functions	CO5
9	What are the different data types present in JavaScript?	Understand	Recall the concept of Datatypes in javascript.	CO5
10	How to create objects in JavaScript?	Understand	Recall the concept of Object creation in javascript.	CO5
11	Difference between Client side JavaScript and Server side JavaScript?	Remember	Recall the concept of javascript.	CO5
12	In which location cookies are stored on the hard disk?	Remember	Recall the concept of cookies in javascript.	CO5
13	What's the difference between event.preventDefault() and event.stopPropagation() methods in JavaScript?	Understand	Recall the concept javascript	CO5
14	How to set the cursor to wait in JavaScript?What is this []?	Remember	Recall the concept of cursor on javascript	CO5
15	What is the difference between View state and Session state?	Apply	Recall the concept of Javascript state?	CO5
16	What are the pop-up boxes available in JavaScript?	Remember	Recall the concept of pop up boxes.	CO5
17	How to submit a form using JavaScript by clicking a link?	Apply	Recall the concept of javascript.	CO5
18	How to validate a form in JavaScript?	Remember	recall the concept of form in javascript.	CO5
19	How to validate email in JavaScript?	Remember	Recall the concept of javascript validations	CO5
20	What is the requirement of debugging in JavaScript?	Remember	Recall the concept of debugging in javascript.	CO5

PART-C SHORT ANSWER QUESTIONS				
1	Is it possible to break JavaScript Code into several lines?	Remember	Recall the concept of javascript .	CO4
2	What are undeclared and undefined variables?	Remember	Recall the concept of variables in javascript.	CO4
3	Write the code for adding new elements dynamically?	Remember	Recall the concept of javascript .	CO 4
4	What are global variables? How are these variable declared?	Remember	Recall the concept of javascript .	CO4
5	What is the working of timers in JavaScript?	Remember	Recall the concept of timers.	CO4
6	What are all the looping structures in JavaScript?	Understand	Recall the concept of SQL statements and explain data type	CO 4
7	How can you convert the string of any base to an integer in JavaScript?	Understand	Recall the concept of javascript .	CO 4
8	What is an undefined value in JavaScript?	Understand	Recall the concept of javascript.	CO4
9	How can a page be forced to load another page in JavaScript?	Understand	Recall the concept of javascript.	CO4
10	What is the difference between an alert box and a confirmation box?	Remember	recall the concept of Checkbox and alert box.	CO 5
11	What are JavaScript Cookies?	Remember	Recall the concept of cookies.	CO4
12	What a pop()method in JavaScript is?	Remember	Recall the concept of javascript.	CO 5
13	Does JavaScript has concept level scope?	Understand	Recall the concept of concept level scope in javascript.	CO 4
14	What are the disadvantages of using innerHTML in JavaScript?	Remember	Recall the concept of javascript and html	CO2,CO4
15	How can generic objects be created?	Understand	Recall the concept of object creation in javascript.	CO 4
16	Which keywords are used to handle exceptions ?	Remember	Recall the concept of exceptions in javaascript.	CO4
17	What are the different types of errors in JavaScript?	Remember	Recall the concept of types of errors in Javascript.	CO 4
18	What is the way to get the status of a CheckBox?	Remember	Recall the concept of CheckBox in javascript.	CO 4
19	How can the OS of the client machine be detected?	Remember	Recall the concept of javascript.	CO4

20	What is a window.onload and onDocumentReady?	Understand	Recall the concept of DOM	CO4
MODULE IV				
UI BINDING LIBRARY FOR REACT				
PART A- PROBLEM SOLVING AND CRITICAL THINKING QUESTIONS				
1	How to declare a state object?	Understand	Recall the concept of object state in React.	CO 5
2	Write a program to use and update the state object?	Apply	Recall the concept of state object updation in react.	CO 5
3	Write a program to create an error boundary to handle errors in the render phase:	Understand	Recall the concept of react to handle errors in render phase.	CO 4
4	Write down the Program to prevent re-rendering.	Understand	Recall the concept of re-rendering prevention in react.	CO 5
5	What are the different ways to style a React component?define them with example?	Understand	Recall the concept of data storage then explain the immediate database modification technique to ensure transaction atomicity despite failures.	CO 5
6	Write down the program to create a switching component for displaying different pages?	Understand	Recall the concept of React for displaying different pages.	CO 5
7	How to re-render the view when the browser is resized?	Understand	Recall the concept of React re-render method.	CO 5
8	Write down the program to perform automatic redirect after login?	Understand	Recall the concept of react .	CO 5
9	Write down the program to create forms in React?	Understand	Recall the concept of forms in react.	CO 5
10	Why do class methods need to be bound to a class instance, and how can you avoid the need for binding?	Understand	Recall the concept of React.	CO 5
PART-B LONG ANSWER QUESTIONS				
1	What are the features of React?	Remember	Recall the concept of React features.	CO5
2	What is JSX?	Understand	Recall the concept of JSX	CO5
3	Why use React instead of other frameworks, like Angular?	Remember	Recall the concept of React?	CO5
4	What are synthetic events in React?	Remember	Recall the concept of synthetic events in react.	CO5

5	What are keys in React?	Understand	Recall the concept of react keys.	CO5
6	What are the differences between functional and class components?	Remember	Recall the concept of react functional and class components.	CO5
7	What is the virtual DOM? How does react use the virtual DOM to render the UI?	Remember	Recall the concept of React DOM.	CO5
8	What are the differences between controlled and uncontrolled components?	Understand	Recall the concept of controlled and uncontrolled compents in react.	CO5
9	Explain React state and props.	Remember	–	CO3
10	What is prop drilling in React?	Remember	Recall the concept of properties drilling in reacct.	CO5
11	What are error boundaries?	Remember	Recall the concept of error boundaries.	CO5
12	What is React Hooks?expalin it?	Understand	Recall the concept of Hooks in react.	CO5
13	Explain Strict Mode in React.	Remember	Recall the concept of strict mode in react.	CO5
14	How to prevent re-renders in React?	Remember	Recall the concept of react render.	CO5
15	Name a few techniques to optimize React app performance.	Remember	Recall the concept of React to optimize the react app performance.	CO4
16	What are the different phases of the component lifecycle?	Remember	Recall the concept of react component lifecycle.	CO5
17	What are the lifecycle methods of React?	Apply	Recall the concept of serializable schedule and verify the given schedule is serial or serializable.	CO5
18	What is React Router?	Remember	Recall the concept of react router.	CO5
19	Can React Hook replaces Redux?	Remember	Recall the concept of Hooks and Redux.	CO5
20	How to pass data between sibling components using React router?	Remember	Recall the concept of React router components.	CO5
PART-C SHORT ANSWER QUESTIONS				
1	Can web browsers read JSX directly?	Remember	Reacall the concept of Jsx .	CO 5
2	What is the virtual DOM?	Remember	Recall the concept of Virtual Dom	CO 5

3	Why use React instead of other frameworks, like Angular?	Remember	Recall the concept of React.	CO 5
4	How do you create a React app?	Understand	Recall the concept of react app creation.	CO 5
5	What is an event in React?	Remember	Recall the concept of React event.	CO 5
6	How do you create an event in React?	Remember	Recall the concept of react event.	CO 5
7	What are synthetic events in React?	Understand	Recall the concept of synthetic events in react.	CO5
8	Explain how lists work in React?	Remember	Recall the concept of list in react.	CO 5
9	Why is there a need for using keys in Lists?	Remember	Recall the concept of uses of keys in list in react.	CO 5
10	What are forms in React?	Remember	Recall the concept of Forms.	CO 3
11	What are the components in React?	Remember	Recall the concept of Components in react.	CO 2
12	What is the use of render() in React?	Understand	Recall the concept of Render in react.	CO 5
13	How do you implement state in React?	Remember	Recall the concept of states in react.	CO 5
14	What are props in React?	Understand	Recall the concept of Props.	CO 5
15	How do you pass props between components?	Understand	Recall the concept of props and components.	CO 4
16	What is a higher-order component in React?	Understand	Recall the concept of HOC in react.	CO 5
17	How can you embed two or more components into one?	Understand	Recall the concept of embedding two components in one component in react.	CO 5
18	Explain the lifecycle methods of components.	Remember	Recall the concept of lifecycle methods of components in react.	CO 5
19	Why should we not update the state directly?	Understand	Recall the concept of states in React.	CO 5
20	What is the purpose of callback function as an argument of setState()?	Understand	Recall the concept of callback function as an argument in setState().	CO 5
MODULE V				
CONNECT TO AN EXTERNAL API				
PART A-PROBLEM SOLVING AND CRITICAL THINKING QUESTIONS)				
1	How do you create a React app?	Understand	Recall the concept of React and create React App.	CO 5

2	Explain JSX with a code example. Why can't browsers read it?	Understand	Recall the concept of Jsx Give an Example of it.	CO 4
4	Give a code example to demonstrate embedding two or more components into one.	Understand	Recall the concept of React .	CO 5
5	Give a code example to modularize code in React.	Understand	Recall the concept of React .	CO 6
6	Write a sample code to update the state of a component in React?	Apply	Recall the concept of React to update the state of an object.	CO 6
7	How do you implement React routing	Apply	Recall the concept of React Routing using Render.	CO 6
8	Web Application without Redux	Apply	Recall the concept of React and design the web application with out using Redux.	CO 5
9	Web Application with Redux (Using Store and reducers)	Apply	Recall the concept of React and design the web application using Redux.	CO 6
10	List some of the cases when you should use Refs.	Apply	Recall the concept of Refs in React.	CO 4
PART-B LONG ANSWER QUESTIONS				
1	What is an event in React?	Understand	Recall the concept of React event.	CO 5
2	Draw a diagram showing how data flows through Redux.	Understand	Recall the concept of Dataflow in Redux.	CO 6
3	How will you distinguish Redux from Flux?	Understand	Recall the concept of Redux and Flux..	CO 6
4	What are the advantages of using Redux?	Understand	Recall the concept of redux .	CO 4
5	Where would you put AJAX calls in your React code?	Understand	Recall the concept of Ajax calls in React.	CO 4
6	You must've heard that "In React, everything is a component." What do you understand from the statement?	Understand	Recall the concept of React component.	CO 5
7	Can browsers read JSX?	Understand	Recall the concept of JSX.	CO 4
8	Define HOC in React?What are the benefits of HOC?	Understand	Recall the concept of React Hoc.	CO 6
9	What is a store in Redux?	Understand	Recall the concept of file redux..	CO 5

10	What is an arrow function and how is it used in React?	Understand	Recall the concept of React arrow functions.	CO 5
11	How is React different from React Native?	Remember	Recall the concept of React Native?	CO 5
12	How is React different from Angular?	Understand	Recall the concept of React and Angular and distinguish the differences.	CO 4
13	What are the components of Redux?	Understand	Recall the concept of components of Redux .	CO 5
14	What are pure components?	Understand	Recall the concept of Pure components in Redux.	CO 5
15	How would you create a form in React?	Understand	Recall the concept of Form in react.	CO 5
16	What are the advantages of using Redux?.	Understand	Recall the concept of Redux advantages.	CO 6
17	What is Redux?.	Understand	Recall the concept of recoverability and explain the recovery facilities with example.	CO 5
18	How are forms created in React?	Understand	Recall the concept of React forms.	CO5
19	What are the three principles that Redux follows?	Understand	Recall the concept of Redux principles.	CO 6
20	What do you understand by “Single source of truth”?	Understand	Recall the concept of Redux.	CO 6
PART-C SHORT ANSWER QUESTIONS				
1	How are Actions defined in Redux?	Remember	Recall the concept of Redux	CO 6
2	Explain the role of Reducer.	Remember	Recall the concept of Reducer	CO 6
3	What are the advantages of Redux?	Remember	Recall the concept of Redux.	CO 6
4	What is React Router?	Remember	Recall the concept of Redux.	CO 6
5	Why is switch keyword used in React Router v4?	Remember	Recall the concept of Redux.	CO 6
6	Why do we need a Router in React?.	Remember	Recall the concept of Redux.	CO 6
7	List down the advantages of React Router.	Remember	Recall the concept of React .	CO 5
8	What Do You Understand By Refs In React?	Understand	Recall the concept of React	CO 5

9	How is React Router different from conventional routing?	Understand	Recall the concept of React router.	CO 6
10	What Is Npm?	Remember	Recall the concept of React.	CO 6
11	What Is Prop Drilling And How Can You Avoid It?	Remember	Recall the concept of react.	CO 5
12	What Is React Context?	Remember	Recall the concept of React	CO 5
13	What Is React Map	Remember	Recall the concept of React map?	CO 5
14	What Is React Conditional Rendering	Understand	Recall the concept of React rendering.	CO 5
15	How Is React Router Different From Conventional Routing?	Remember	Recall the concept of react router.	CO 5
16	Why Switch Keyword Used In React Router V4?	Remember	Recall the concept of react.	CO 5
17	How Many Ways Can We Style The React Component?	Remember	Recall the concept of react.	CO 5
18	What Is The Significance Of Store In Redux?	Remember	Recall the concept of Redux.	CO 6
19	What Is Redux DevTools?	Remember	Recall the concept of Redux.	CO 6
20	Are There Any Similarities Between Redux And RxJS?	Remember	Recall the concept of Redux.	CO 6

Course Coordinator:
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