	Page No.
9)	M. 1.2
⊘)	Or inside a class [this, state].
3]	When state changes, the component re-renders
ध	Managed inside the components using hooks [use State] or inside a class [this. state]. When state changes, the component re-renders outomatically. Example: - A counter value that changes when the uses clicks a button.
•	Pops -
<u></u>	External data passed anto a component from 9t5 parent Read-only
3	Used to configure ox customize child components.
4)	Read-only Used to configure or customize child components. Example: Passing a button label (< Button text="Click Me"):
	hey difference:
	State -> internal & mutable
	Props -> external & immutable
32	What 95 a React component? Differentiate between a
	class component and a functional component, and
	discuss the advantages of using a functional component
	with hooks like use State and use Effect over a class
	component.
	A React component 95 a reusable, Independent piece of
7	12T
	Class Component
	11ce class survey
	State managed with this. State.

	Date
21	Lifecycle methods.
	Class Welcome extends React. Component 2 Constructor () { Super ();
	this . State = 2 count: 03;
	Tehran <hi>> Hello 2this. props. name 3, counts 2 this. State. count 3 </hi>
	Engloped Company white
	Functional Components
	Oses plain Java script functions. State and lifecycle via hooks
	function Welcome (3 name 3) 3 const [count, setcount] =
-7	React. UseState (0); return <h1> Mello Ename 3, count: 2 count 3 </h1> ;
	3
Q3]	Describe the concept of templating using components" in React thy is this approach considered superior to toaditional web development methods that rely on monolithic HTML files?

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→	Instead of cositing a single monolithic HIML fale, React encourages building small, reusable components. Example: Instead of cositing < header >, < nav>, < footes> manually in each fale, create reusable < Header > . < Nav /> < Footes /> components.
	Advantages:
	Reusability -> Less code duplication. Maintainability -> Easies to update one component than multiple HTML pages. Composability -> components can be nested like Lego blocks
Quì	How do you handle uses events in React (eg, a button (lick)? Provide a simple code snippet to demonstrate how an event handles is defined in a component and how it can be used to update. The component's state.
	React handles event like on Click, on Change etc. Example Button click to update state.
	import React, & use State & from "react"; function (ounter() & const [count] set (ount] = use State (o); const handle click = () => & Set Count (count + 1); 3;

	oction (min a control of the contro
	<div></div>
	Count: 3
	< button on Click = 2 handle Click 3
	Increase / button>
	2);
	565 in 186 libraries
	export default Countes;
	When the -> button is clicked the event handles
	updates state, causing React to re-render.
Q5)	What is responsive web design and why is it
	What is responsive web design and why is it crucial fox modern applications? Describe how you would implement a responsive design in a React application using CSS media queries or a CSS in
	would implement a responsive design in a React
	application using CSS media queries ora CSS in
	Is library.
7	Responsive design ensures the UI adopts to different Screen sixes (mobile, tablet, desktop).
	Screen sixes (mobile, tablet, desktop).
	Crucial because users access apps from various
	devices.
.)	Cac salis angere
	CSS Media queries.
	· Containes 3
	(2)clth : 100%
	Padding / 20px;
191 191	3 9

@ media (max - width: 600px) ?
· Contrined 3
background - color: lightblue; Font-size & lupx;
7 Font-Size (14px)
3
2) CSS in 35 libraries.
import styled from
"Styled - components"
Const Box = Styled div width: 100%;
padding: 20 px; @ media (max-width: 600px)?
backement - (olax: 19ahtblue)
background- (olor: 19ghtblue; font-59ze: 14px;
3:
UT Libraries
Provide responsive grid systems and backpoints out of the box
out of the box
10/10/26
70/101