csi) Advantages of React, js.

=> 1 React js is a popular javascript library used for building interfaces, particularly single-page applications:

(2) Advantages of React js:

i) It has components based architecture which promotes reusability, better organization and maintainibility of code.

(ii) React. is uses virtual DOM which enhances performance and ensures just rendering

(ii) React uses JSX, which allows developers to write HTML-like syntax with javascript.

(iv) React follows one -way data binding which improves control over date and markes application easier to debug.

React simplifies the process of designing and debugging by using declarative UZ.

(vi) Realt is flexible i'e it allows

customization according to project requirements (ii) React is easy to learn which shortens the learning were and increases developer's

Comproductivity of asserts troits tomes for

(iii) React improves SEO of applications.

compared to traditional journswipt grameworks.

(ix) Rich ecosystem of libraries & tools in react makes it easier to build robust and scalable applications.

(x) React supports cross-platform development.

late that changes over time in a compon or) Features y React is without releasing the page 1) copy from (91) first point Features of react.js: (i) components based architecture: (i) components based architecture: (ii) components based architecture: (ii) components based architecture: (iii) components based architecture: and independent components 669: junction Button () & considera return & button > Chick & button >; (i) Virtual Dom charten about in @ React uses a virtual DOM to improve performance, which to do instead against of 6) The virtual DOM is a lightweight representation of the actual DOM. (C) React only updates the parts of the real Dom that have changed. (a) Js x is a syntax extension for javasuript that allows developers to write HTML - like code vithin javasvijot. 6) eg: const greeting = <h17 Hello </h17. i Unidirectional data you @ React follows a one-way binding approach where data flows from parent component to child component using props. 6) eg: function component (props) {
return < h2 > 9 props · message 3 < / h2 >; State Management (a) React provides a state object to manage

	Page No. Date
	data that charges over time in a component
6	This allows dynamic updates to the UI
-	without reloading the page
(c)	seg. const (count, set count) = usestare (o):
vi)	React Router :21. Dele le company
	a) React nouter is a library for handling
	agricoral navigariors in relact copplications.
	Is accours user to vilate single - page
-	approvides with multiple views.
,	component = & About Page 3/>
	component = & About Page 14/>
A 11	MILIAI COLOR MILIAMONIA
Service Companies palaces	to manar components have lifety de methods
had	a React components have lifecycle methods to manage behavior at different stages of their lifecycle.
	of their lifecycle.
0	5 Eg: Fet ching data when a component
	() to the sunctional
	that have charised.

Note: You can add features in this answer as (93) what is JSX? Explain its attributes with => (1) JSX also known as jarascript XML is a syntax extension that allows developers to write HTML-like code within javascript. (2) It is used in React is to describe the 3) Attributes in JSX: (i) class Name (a) In JSX, class is replaced with class Name to avoid conflict with javascript's class Keyword. (b) eg: <div className = "box" > Hello! </div > (ii) Inline Styles @Inline styles are specified as an object with camelCase properties.

(b) eg: <h1 style = <f (olor: blue),

fontSize: 24 px ' } > Hey </h1> @ Javascript expressions can be inserted using &'y Grionst name = "React"; Lp > Welcome to { name }; (iv) Boolean attributes (a) Boolean attenibutes like disabled, checked or read Only do not require a value.

(b) Setting them true or julse dynamically control their behaviour. @ eq: <input type = "checkbox" checked = { true }/> (V) Custom attributes. a). Developers, an pars, custom, attributes (props)

you can cold furtures in this amount Page No. Explain it attributes with to React components for dynamic behaviour (69x Button label = " click me"/> syntax externion that allows developens inite HTML-like well within journeysingt. It is used in React is to describe the structure of the user interface (UI) Attributes in JSX: i) class Name