
## Bharati Vidyapeeth's

## Institute of Computer Applications and Management (BVICAM)

## A-4, Paschim Vihar, New Delhi-63

## THIRD SEMESTER [MCA] Internal Examination, November 2023

Pape	Paper Code: MCA-114 Subject: Full Stack Development			
Tim	Time: 2 Hours Maximum Marks: 4			
ľ	Note:	Attempt THREE questions in all. Question No. 1 is compulsory, and attempt of	ne	
		question from each unit.		
1.	Ans	ower all the following questions briefly: - $1.5 \times 1$	0 = 15	
	(a)	Enlist the different methods to declare variables in ES6.	CO1	
	(b)	Distinguish between presentational component and container component.	CO2	
	(c)	Illustrate the purpose of middleware in redux.	CO3	
	(d)	Identify the provider of react redux.	CO3	
	(e)	When react started it faced a lot of obstacles as other web languages were also available. Discuss those obstacles.	CO1	
	(f)	Give the output of the following code. Name the operator used and its purpose to give this output.	CO1	
		let arr1 = ['A', 'B', 'C']; let arr2 = ['X', 'Y', 'Z'];		
		<pre>let result = [arr1,arr2]; console.log(result);</pre>		
	(g)	Discuss the purpose of using promise in java script	CO1	
	(h)	List the different java script frameworks and their developers.	CO1	
	(i)	Explain the design pattern of flux.	CO3	
	(j)	Explain Java Script is a loosely typed language with example.	CO1	
		UNIT - I		
2.	(a)	Discuss upon the purpose of using AJAX through a suitable example. 5	CO1	
	(b)	Compare DOM and Virtual DOM through a real-life example. 5	CO1	
	(c)	Create a react component for one of the children's toys with the following belements:	CO1	
		Remote Control toy		
		<ul> <li>Features:         <ul> <li>RED in Color</li> <li>Big Types</li> <li>Moves with Remote</li> </ul> </li> </ul>		
		Amazon.in		

3. (a) Emphasis on the purpose Transpilling with example.

Free Delivery

5 CO1

- (b) Discuss a way to specify and validate property types in react.js 5 CO1 (c) 5 CO1 Create a login form using React js UNIT - II 4. 5 CO2 (a) Examine redux.js with react using a suitable example. (b) Discuss application state with message and post within it. 5 CO2 (c) Identify and explain the purpose of using props and state management in 5 CO2 react is. 5. Determine the purpose of using component in react. Discuss Component 6 CO2 (a) lifecycle in detail. (b) Crete a single page application for a startup organization. It should be felt to CO<sub>3</sub>
  - (b) Crete a single page application for a startup organization. It should be felt to 9 COS the user that it has multiple pages. The left side of the page consist of tab named 'About', "event', 'products', 'contact Us'. Home page should have page of each section and error page to handle 404 not found error. Once inside each section should display the same main menu. The content on right side should change as user navigates. 'About' will have sub menus: company (default), history, services, Location when user navigates to it. This all should be implemented by showing the components used under the library react router dom and switch case to handle. Discuss all the components used to implement this SPA.