



Mid Term – Spring 2021

Course Title:	Web Technologies				Course	CSC336	Credit	3(2,1)
Course	Muhammad Ali Khan				Program	BCE		
Semester:	8th	Batch:	FA18	Section:	A, B	Date:	14/05/2022	
Time	90 minutes				Maximum Marks:		40	
Student's					Reg. No.	CIIT/SDP-	/LHR	
<u>Important Instructions / Guidelines:</u>								
a) Assume the use of React JavaScript, HTML, and CSS.								

Course Learning Outcome of all questions are in the category:
[CLO1 – CLO2]

Question 1: [Mars: 06]

Apply blue color to the paragraph in Colors component in three different ways.

```
function Colors(){  
  return <p>Color me in 3 ways!</p>  
}
```

Question 2: [Mars: 03 + 03 = 06]

1. What is the relation between package.json and package_lock.json files in React applications?
2. Briefly describe three places where change occurs after the installation of any third-party package in React applications.

Question 3: [Mars: 03 + 03 + 02 = 08]

```
class Match extends Component {  
  state = { price : 1265000 }  
  render() { return <p>{this.state.price}</p> }  
}
```

1. A change is recommended by client in Match component that is used in three other components B, C, and D. Where and why would you make changes to reflect in component C?
2. What happens when component C updates the state of Match component?
3. Is a paragraph element in Match component a controlled element? Briefly explain.

Question 4: [Mars: 08]

Write React UI to show navigation component that holds links to products and services components at URL `/api/products` and `/api/services` respectively. Apply routing wherever required.

Note: You do not need to write `index.js`

Question 5: [Mars: 12]

Implement the following scenario. Match and Buy components have common parent App component. Use heading 1 tag to show price in Buy component and use paragraph tag in the Match component to access `brokerPrice` method from Buy component.

