



Mobile Application Development

Midterm Exam

Program: BSCS-6

Time: 90 Minutes

Total Marks: 25

Question 1: (CLO-1)

(2+2)

- a- Object Destructing is an important concept in JavaScript. Explain the concept of object destructuring.
- b- Explain the concept of "learn once, write anywhere" in the context of React Native?

Question 2: (CLO-2)

(5, 4)

- a- Complete the code below using spread operator and reduce method.

```
function multiply(/* TODO: Add rest parameter syntax */) {  
  if (/* TODO: Check if there are no arguments */) {  
    return 0;  
  }  
  return /* TODO: Multiply all the arguments together */;  
}
```

```
const result1 = multiply(2, 3, 4);  
console.log(result1); // Output: 24
```

```
const result2 = multiply(10, 5);  
console.log(result2); // Output: 50
```

```
const result3 = multiply(7);  
console.log(result3); // Output: 7
```

```
const result4 = multiply();  
console.log(result4); // Output: 0
```

b- Complete the code below using **startswith** and **endswith** methods of strings.

```
function isFullName(fullName, firstName, lastName) {  
  return /* TODO: Check if fullName starts with firstName and ends with lastName */;  
}
```

```
const result1 = isFullName('John Doe', 'John', 'Doe');  
console.log(result1); // Output: true
```

```
const result2 = isFullName('John Smith', 'John', 'Doe');  
console.log(result2); // Output: false
```

```
c- const result3 = isFullName('John Smith Doe', 'John', 'Doe');  
    console.log(result3); // Output: true
```

Question 4: (CLO-3)

(2, 6,4)

- a- How does Flexbox in React Native differ from Flexbox in CSS?
- b- Write a React Native component called **List** that receives an array of items as a prop. The component should store the items in its **state** and render them in a list view. Each item should be displayed as a separate **Text** element. (Build the list using 'Text' and 'View' Components).
- c- Extend the List component to allow the user to filter the list Items.
Add a Text Input where user can enter the term to filter the results from list.