

Reg. No: _____ Class & Section: _____



COMSATS University, Islamabad.

Department of Computer Sciences

Terminal Examination Spring-2022

Subject: Mobile Application Development

Semester: BS (CS & SE)

Dated: 07 July, 2022

Instructor: Mr. Junaid Ali Khan, Mr. Waseem Abbas

Marks: 50

Time: 3 Hours

Instructions:

- Attempt all questions on answer sheet. Return question paper with answer sheet.
- Q1 is mapped to CLO 2. Q2 and Q3 are mapped to CLO3.

CLO 2

Question 01: Applying the concepts of JavaScript, provide the output of the following programs. (1*10 = 10 marks)

✓ 1.

```
var num = 8;
var num = 10;
console.log(num);
```

2.

```
function sayHi() {
  console.log(name);
  var name = 'Harris';
}
sayHi();
```

✓ 3.

```
let number = 0;
console.log(number++);
console.log(++number);
console.log(number);
```

✓ 4.

```
function sum(a, b) {
  return a + b;
}
console.log(sum(1, 2));
```

✓ 5.

```
function sayHi() {
  return () => 0();
}
console.log(typeof sayHi());
```

✓ 6.

```
console.log({... 'Sarmad'});
```

✓ 7.

```
function sum(a, b) {
  return arguments.reduce((a, b) => a + b);
}
console.log(sum(1, 2, 3));
```

✓ 8.

```
console.log(1 == '1');
console.log(false == '0');
console.log(true == '1');
console.log('1' == '01');
```

✓ 9.

```
const obj = {a: 'one', b: 'two', a: 'three'};
console.log(obj);
```

✓ 10.

```
function getAge(...args) {
  console.log(typeof args);
}
getAge(21)
```

CLO 3

Question 02: Illustrate the idea of following React Native concepts in few lines. Irrelevant details will be resulted in negative marks. (2*10 = 20 marks)

- Demonstrate the concept of Redux?
 - ✓ ii. Illustrate the names of required props in FlatList?
 - ✓ iii. Demonstrate the difference between push and navigate methods in navigation?
- iv. Demonstrate the difference between AsyncStorage and Expo Secure Store?



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- ✓vi. Show the role of 'InitialParams' prop inside Screen component?
- ✓vii. Apply the concept of 'useEffect' in a functional component.
- ✓viii. Show the possible values of 'animationType' in a Modal component.
- ✓ix. Illustrate the names of props (stages) of 'Pressable' component through which we can trigger the press interaction.
- ✓x. Show the difference between a ScrollView and FlatList component.
- ✓xi. Apply the concept of function binding on a Button component.

Question 03: Apply the concepts of React Native and write the code according to the below screen and requirements. (20 Marks)

- 1- 'Login' (Screen 1) and 'Registration' (Screen 2) [8 Marks]
 - ✓a. User Interface [4]
 - ✓b. The image shown in the center is a 'VectorIcon' component, having prop name 'firebase' [2]
 - ✓c. Password field should not be plain text in both screens [1]
 - ✓d. Password and Confirm Password must be same before creating an account [1]
- 2- Registration screen should use "POST" method using "Fetch" Api to store data. [4 Marks]
 - a. Format and URL is mentioned on screen below, labelled as "JSON Data".
- 3- Navigation code [8 Marks]
 - a. After registration, when navigating to Login screen, pass the necessary parameters to previous screen via function and set values to the E-mail and Password fields on Screen 1 [4]
 - b. On pressing 'Log in' button, the credentials should be verified by using "GET" method using Fetch Api and shows Alert component on success/error. [4]

Screen 1



Screen 2



JSON Data

