10 — Sheikh Abdullah Mansoor

Reg. No: FA18-BSE-082 Class & Section: BSSE-7B

COMSATS University, Islamabad.

Department of Computer Sciences

Terminal Examination Fall-2021

Subject: Mobile Application Development
Semester: BS(CS & SE)
Dated: January, 2022
Instructor: Mr. Zaheer Sani, Mr. Junaid Ali Khan

Marks: 50
Time: 3 Hours

Instructions:

- Attempt all questions on answer sheet.
- Return question paper with answer sheet. Q2 and Q3 are mapped to CLO 3 and CLO 4 respectively.

CLO 2

Question 01: Choose the best answer. (1*10 = 10 marks)

1. Which one is not the prop in TouchableOpacity?
   a. disabled
   b. textSize
   c. style
   d. onPress
   e. activeOpacity

2. Android uses _____ and iOS uses _____ at backend for persistent storage
   a. SQLite, Serialized Dictionary
   b. XAML, JSON
   c. mySQL, mongoDB
   d. none of above

3. To customize the header (such as title, text-alignment, text-color, background-color etc) of all screens, we need to customize through _____ prop of Navigator.
   a. Navigation
   b. screenOptions
   c. options
   d. headerProps

4. To move from screen 'A' to screen 'B' and send JS object named 'data' , we will use?
   a. navigation.navigateTo('B', { params: data })
   b. navigation.navigate('B', data)
   c. navigation.navigateTo('B', data)
   d. navigation.navigate('A', B').data()

5. To customize default back button icon and action in the header of a screen, we need to override _____?
   a. ScreenOptions
   b. Navigation
   c. Drawer
   d. headerLeft

6. What is the result of this code?
   const removeItem = (itemKey) => {
   setList(list => getList.filter(item => item.key
   itemKey));
   }
   a. Find the item with itemKey and rep
   the list
   b. Remove Items from the List
   c. Replace all items in the list

7. Following is NOT React Native Componer
   a. EditText
   b. Text
   c. View
   d. TextInput

8. Following are required when developing CLI Apps on local machine.
   a. Expo Client App
   b. expo-cli tool
   c. Nodejs
   d. Snack

9. In React Native, _____ is comment JSX code.
   a. {/* */}
   b. //
   c. /* */
   d. None

10. In React Native, which is the right s passing numeric value as a prop in
    a. propname = "15"
    b. propname = 15
    c. propname = {15}
    d. propname : {15}

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Question 02: Provide the short answers for the following questions. Irrelevant details will be resulted in negative marks. **(2*10 = 20 marks)**

i. What are the names of required props in FlatList?
ii. Define 'TouchableHighlight' and 'TouchableWithoutFeedback' component?
iii. The function 'createNativeStackNavigator' returns an object containing 2 properties. Write the names of these 2 properties?
iv. Write the names of required props of Stack.Screen component and their working (1-2 liner).
v. What are the types of navigations defined in React Navigation.
vi. What is the use of 'toggleDrawer' method in Drawer navigator?
vii. What is the difference between push and navigate methods in navigation?
viii. What is the difference between AsyncStorage and Secure Store?
ix. What is the role of 'InitialParams' prop inside Screen component?
x. Write a short code on usage of 'useEffect'.

Question 03: Develop a Mobile Application. **(20 Marks)**

Design the below screens with following requirements. No need to write import statements.

1- Design of (Screen 1) 'Login' and (Screen 2) 'Registration' [4]
2- The image shown in center is the 'Ionicons' component, having prop name 'logo-firebase' [2]
3- Registration credentials should be stored in "AsyncStorage" [3]
4- 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 [2]
5- On successful login, the credentials should be verified from 'AsyncStorage' and shows alert on success/error [2]
6- There should be no back button on 2nd screen (Registration) [1]
7- Password field should not be plain text in both screens [1]
8- Navigation code [3]
9- Color scheme should be same as follows. Rest components should be in default colors [2]
a. Icon on both screens should be yellow
b. Button on both screens should be blue with white text