

# CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

Fifth Semester of B.Tech. (CE) Examination

March 2020

CE373 Mobile Application Development (Elective-I)

Date: 24.03.2020, Tuesday

Time: 10:00 a.m. To 01:00 p.m.

Maximum Marks: 70

**Instructions:**

1. The question paper comprises of two sections.
2. Section I and II must be attempted in separate answer sheets.
3. Make suitable assumptions and draw neat figures wherever required.

## SECTION – I

**Q - 1 Answer the following questions. [07]**

- (a) What Activity method you use to retrieve a reference to an android view by using the id attribute of a resource XML? [01]
- (I) findViewById(int id)
  - (II) findViewById(int id)
  - (III) retrieveResourceById(int id)
  - (IV) findViewById(String id)
- (b) Which configuration file holds the permission to use the internet? [01]
- (I) Layout file (II) Property file (III) Java source file (IV) Manifest file
- (c) What is role of SQLite Open Helper? [01]
- (d) What does an Android APK file contains? [02]
- (e) What is the difference between onCreate() and onStart()? [02]

**Q - 2 (a) How to use checkbox in Android app? Explain with an example. [04]**

**Q - 2 (b) What is android activity lifecycle? Explain the role of any two method in detail. [05]**

**Q - 2 (c) Define the following: [05]**

(1) View (2) View group (3) Intent (4) Content Provider (5) Broadcast Receiver

### OR

**Q - 2 (c) What is Parsing? explain XML parsing and JSON parsing with example. [05]**

**Q - 3 (a) What is Framework? Explain MVC framework with example. [04]**

**Q - 3 (b) Explain iPhone operating system architecture. Enlist the main features of latest iOS. [05]**

### OR

**Q - 3 (b) What is Generics in swift? Explain with example. [05]**

**Q - 3 (c) What is type casting in swift? Explain with example. [05]**

### OR

**Q - 3 (c) Define UINavigationController. How do you navigate to another view? Explain briefly with example? [05]**

## SECTION – II

**Q - 4**      **Answer the following questions.** **[07]**

- (a) Which of the following declares a mutable array in Swift? [01]  
 A) Let X=[Int]() B) Var X=[Int]  
 C) Var X=[Int]() D) Let X=[Int]
- (b) Write down syntax for toast in android. [01]
- (c) Explain the components of AndroidManifest.xml file in android project? [01]
- (d) What is Emulator? Explain in brief. [02]
- (e) What is ADB (Android Debug Bridge)? [02]

**Q - 5 (a)** Write the various layouts available in android. Explain any one out of that. [04]

**Q - 5 (b)** What is Intent, intent objects and fields? List and explain types of Intents. [05]

**Q - 5 (c)** What is Listview. Write a java class to add any 10 items within Listview. [05]

**OR**

**Q - 5 (c)** Create an Android application of Calculator. The UI consists of a TextView for displaying the result and 16 Buttons. (XML & Java file only) [05]

**Q - 6 (a)** What is dialog? How do you create and build AlertDialog? [04]

**Q - 6 (b)** Explain different types of menu in android with example. [05]

**OR**

**Q - 6 (b)** What is fragment and how we can create it in android application? [05]

**Q - 6 (c)** Write android application to create three button in main activity which calls different activity when button is pressed. (XML & Java file only) [05]

**OR**

**Q - 6 (c)** Create android application to do addition of any two numerical digits (xml file and Java class only). [05]

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