

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY**Fifth Semester of B.Tech. (CE) Examination****November 2019****CE373 Mobile Application Development (Elective-I)****Date: 14.11.2019, Thursday****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)** How will you reference a textbox control in java file, that is available in XML file and the ID is txtName. [01]

- A) EditText txtEmpName;
txtEmpName=findViewById(R.id.txtName);
- B) EditText txtEmpName;
txtEmpName=(EditText)findViewById(R.id.txtName);
- C) EditText txtEmpName;
txtEmpName=(EditText)findViewById(txtName);
- D) None of the above.

(b) What is ADB (Android Debug Bridge)? [01]**(c)** List the core components under the Android application architecture? [01]**(d)** What is the difference between onCreate() and onStart()? [02]**(e)** Write a java code to display toast (Custom Message) on specific interval of time. [02]**Q - 2 (a)** Write the various layouts available in Android. Explain any one out of that. [04]**Q - 2 (b)** What is Adapter? What are the different types of adapters used in android? Explain with short example. [05]**Q - 2 (c)** Define the following: [05]

(1) Activity (2) Service (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)** What is enumeration in swift? Explain with example. [05]**OR****Q - 3 (b)** What is Array and Dictionary in swift? Explain with example. [05]**Q - 3 (c)** Explain iPhone operating system architecture. Enlist the main features of latest iOS. [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 configuration file holds the permission to use the internet? [01]

- A) Layout file
B) Property file
C) Java source file
D) Manifest file

(b) What is role of Dalvik virtual machine in Android development? [01]

(c) What does an Android APK file contains? [01]

(d) What is the difference between View & ViewGroups? [02]

(e) What is role of SQLite Open Helper? [02]

Q - 5 (a) How to use spinner in Android App? Explain with an example. [04]

Q - 5 (b) What is android activity lifecycle? Explain the role of any two method in detail. [05]

Q - 5 (c) What is an intent? Differentiate between implicit and explicit intent? How to start activity using intent, Explain with implicit and explicit intent example. [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) Draw and explain Fragment lifecycle in android. [04]

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

OR

Q - 6 (b) What is Dialog? How many ways to implement a dialog in android? [05]

Q - 6 (c) Create an android application that will convert distance entered into Kilometers into Meters and Centimeters. (XML & Java file only) [05]

OR

Q - 6 (c) Write a code to insert EmployeeDetails(EmpId(AUTOINCREMENTED), [05]
EmpName, EmpMail, EmpSalary) in SQLite Database in Android. (Java file only)

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