

GUJARAT TECHNOLOGICAL UNIVERSITY**MCA - SEMESTER- IV • EXAMINATION – WINTER 2020****Subject Code:4649303****Date:04/01/2021****Subject Name:Mobile Computing****Time:02:00 PM to 04:00 PM****Total Marks: 56****Instructions:**

1. Attempt any FOUR questions out of EIGHT questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1 (a)** Do as directed. **07**
1. What is the purpose of startActivityForResult() method in Android?
 2. Which permission is needed to read the private user information provided by the Contacts content provider.
 3. What is the use of AAPT tool in Android?
 4. Which are the ways by which one can start Service in Android?
 5. What is the difference between Activity context and Application context?
 6. What is Pending Intent in Android?
 7. If you want to share the data from one application to other applications, which object you will use?
- (b)** State TRUE or FALSE with justification. **07**
1. onResume() callback method of an activity is called when activity interaction with user is started.
 2. FrameLayout is designed to display a single item at a time on screen.
 3. secondLayout.xml is a valid Android resource filename.
 4. While developing Android applications, developers can not test their apps on Third-party Emulators.
 5. In an implicit intent, the sender specifies the name of component to be started.
 6. Action Bar can be associated to Activity only.
 7. setThreshold() method sets the minimum number of characters the user must type before the suggestions appear as a drop-down menu, while working with ArrayAdapter?
- Q.2 (a)** Android is based on which operating system? Explain the Android architecture with diagram. **07**
- (b)** List various advantages of Fragment. Discuss the lifecycle of Fragment with diagram. **07**
- Q.3 (a)** What is the purpose of AndroidManifest file in Android? Discuss with example. **07**
- (b)** Differentiate: Activity and Service **07**
- Q.4 (a)** What is the significance of BroadcastReceiver Class in Android? Explain with code using suitable example of it. **07**
- (b)** How many threads are created in AsyncTask in Android? Explain AsyncTask by giving a suitable example. **07**
- Q.5 (a)** Explain with code how to create, write and read the data from the file on internal storage. **07**

- (b) What is Content Provider? What is the need of content provider? List out different built-in Content providers provided by Android. Explain any one in detail. **07**
- Q.6** (a) What is shared preferences? Explain methods for create, search, read, add, update and delete shared preference? **07**
- (b) What is SQLiteDatabase? Explain methods for creating, updating, deleting and querying database records. **07**
- Q.7** (a) What is Animation? List out different Animations in Android. Explain Tween animation with example. **07**
- (b) What is the use of Dialog? List various kinds of dialogs supported by Android. Explain any two with example. **07**
- Q.8** (a) Write the code snippet to: **07**
1. Create a Map based Activity.
 2. Sending an SMS
- (b) Write Steps for monetizing and publishing an android Application. **07**
