

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA - SEMESTER– IV• EXAMINATION – WINTER - 2017

Subject Code: 3640015

Date:06/01/2018

Subject Name: Android Programming

Time:02.30 PM TO 05.00 PM

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1 (a) Do as Directed:

1. _____ file explains what the application consists of and glues everything together. **01**
2. _____ is used to pass small chunk of data from one activity to another activity in android. **01**
3. Comment “Android is hailed as the first complete, open and free mobile platform.” **02**
4. What is the use of default.properties file in android? **01**
5. What is the use of <intent-filter> tag in android? **02**

(b) i) List permissions required for the following tasks: **05**

1. To access phone state information
2. Write files to SD card
3. Send SMS
4. To access phone’s location using NETWORK_PROVIDER.
5. To access camera and take pictures.

ii) Write a note on Service in brief. **02**

Q.2 (a) Explain Activity Life-Cycle in android by giving a suitable example. **07**

(b) Explain Android Architecture in detail. **07**

OR

(b) Explain Sensors in brief by giving a suitable example. **07**

Q.3 (a) List out different Layouts in android. Explain Linear and Relative Layout by giving a suitable example. **07**

(b) List out different Menus in android. Explain Context Menu in detail by giving a suitable example. **07**

OR

Q.3 (a) Explain the use of Location Based Services in android by giving a suitable example. **07**

(b) What is Animation? List out different Animations in android. Explain Tween animation in brief. **07**

Q.4 (a) What is SQLite database? Explain methods for creating, updating, deleting and querying database records by giving a suitable example. **07**

(b) What is Content Provider? List out different Built-in Content providers provided by android. Also explain CallLog provider by giving a suitable example. **07**

OR

Q.4 (a) Differentiate :

- a) Activity v/s Service **02**
- b) query() v/s rawQuery() **01**

- c) AutoCompleteTextView v/s MultiAutoCompleteTextView **02**
- d) Options Menu v/s Context Menu **02**

- (b) a) What is the purpose of the following: **03**
 - i) setOneShot()
 - ii) android:entries
 - iii) R.java

- b) Explain the following Android Tools: **04**
 - a) DDMS
 - b) ADB

- Q.5** (a) Write Steps for Monetizing and publishing an android Application. **07**
- (b) Write the code Snippet for the following and also provide suitable explanation for the same: **07**
 - a) WebView
 - b) Dial a number

- OR**
- Q.5** (a) Explain the use of Fragments by giving a suitable example. **07**
- (b) Write the Code Snippet for the following and also explain it in brief: **07**
 - a) RatingBar
 - b) ListView
