

# GUJARAT TECHNOLOGICAL UNIVERSITY

**BE - SEMESTER– VIII (New) EXAMINATION – WINTER 2019**

**Subject Code: 2180715**
**Date: 29/11/2019**
**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.

|            |   | MARKS     |
|------------|---|-----------|
| <b>Q.1</b> | (a) What is AVD? Explain the process of creating AVD in Android application development.  | <b>03</b> |
|            | (b) What are the orientation modes of available in Android? Explain with  | <b>04</b> |
|            | (c) Draw and explain Activity Life Cycle in detail/.  | <b>07</b> |
| <b>Q.2</b> | (a) How to use Navigation drawer in Android App?  | <b>03</b> |
|            | (b) Write a code to add ProgressDialog in Android App.  | <b>04</b> |
|            | (c) Create an android activity that will display record of a customer fetched from a SQLiteDatabase.  | <b>07</b> |
|            | <b>OR</b>   |           |
|            | (c) Write a code to insert studentDetails (sID, SName, sEnrollmentNo) in SQLite database using Android App.   | <b>07</b> |
| <b>Q.3</b> | (a) What is material design in Android?   | <b>03</b> |
|            | (b) List out various layouts available in Android. Explain any one in detail.   | <b>04</b> |
|            | (c) Explain the concept of AsyncTask with an example.   | <b>07</b> |
|            | <b>OR</b>   |           |
| <b>Q.3</b> | (a) What is the significance of Android Manifest file?  | <b>03</b> |
|            | (b) How to use spinner in Android App? Explain with an example.   | <b>04</b> |
|            | (c) What you mean by fragment in Android? Explain fragment with an example.   | <b>07</b> |
| <b>Q.4</b> | (a) What is content resolver? Discuss in brief.   | <b>03</b> |
|            | (b) What is the use of BroadcastReceiver? How to add it in Android App?   | <b>04</b> |
|            | (c) Create an android application that will convert distance entered into Kilometers into Meters and Centimeters. (Write XML file and Java file only) | <b>07</b> |
|            | <b>OR</b>   |           |
| <b>Q.4</b> | (a) Explain the use of RadioButton and RadioGroup with an example.  | <b>03</b> |
|            | (b) What are the monetary advantages which you may get after publishing your application?   | <b>04</b> |
|            | (c) Write all necessary code to print all the files stored in DCIM folder of SD card.   | <b>07</b> |
| <b>Q.5</b> | (a) What is widget?   | <b>03</b> |
|            | (b) What is parsing? Discuss how you can perform parsing using JSON in Android application.   | <b>04</b> |
|            | (c) Write a code to send e-mail from Android App using the concept of explicit intent.  | <b>07</b> |
|            | <b>OR</b>   |           |
| <b>Q.5</b> | (a) What is Service? Differentiate between Activity and Service.  | <b>03</b> |
|            | (b) Discuss AsyncTaskLoader in detail.  | <b>04</b> |
|            | (c) Write a steps to create an android application for Movie Ticket Booking.  | <b>07</b> |

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