

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VIII (NEW) EXAMINATION – WINTER 2017****Subject Code: 2180715****Date: 07/11/2017****Subject Name: Android Programming(Departmental Elective - III)****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) What is AVD? Explain the process of creating AVD in Android application development. **03**
- (b) State the challenges present in the development of Android application. **04**
- (c) Write a note on : Android Framework. **07**

- Q.2** (a) How can you create spinner, radio button and checkbox in an Android GUI? Explain with syntax. **03**
- (b) What is Accessibility? Explain with respect to GUI. **04**
- (c) Write a note on : Activity Life Cycle. **07**

OR

- (c) Explain DVM in detail. **07**
- Q.3** (a) Differentiate between Synchronous and Asynchronous tasks. **03**
- (b) What is parsing? Discuss how can you perform parsing using JSON in Android application. **04**
- (c) Discuss various Service life cycle methods in detail. **07**

OR

- Q.3** (a) What is Service? Differentiate between Activity and Service. **03**
- (b) Discuss AsyncTaskLoader in detail. **04**
- (c) What is manifest file? Discuss applications of manifest file in detail. **07**
- Q.4** (a) Explain in brief : What is content provider? **03**
- (b) How can you use Loader to asynchronously load data into an activity? Explain with example. **04**
- (c) What is Intent? Explain with suitable example. **07**

OR

- Q.4** (a) What is content resolver? Discuss in brief. **03**
- (b) How can you access Content Provider's Data into other applications? Explain with example. **04**
- (c) Create an android activity that will display record of a customer fetched from a database. **07**

- Q.5** (a) What is Layout? What are the advantages of setting a Layout? **03**
- (b) Create an application that will display toast message of current time after each minute. **04**
- (c) How can you publish your application in Google Play Store? Explain the entire process. **07**

OR

- Q.5** (a) What is widget? **03**
- (b) What are the monetary advantages you may get after publishing your application? **04**
- (c) Create an android application that will convert distance entered into Kilometers into Meters and Centimeters. (Write XML file and Java file only) **07**