

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA – SEMESTER V– EXAMINATION- WINTER 2015

Subject Code:650003

Date:05/12/2015

Subject Name : Mobile Computing

Time:10.30 AM TO 01.00 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)**
- (i) Explain the use of following tags **04**
a. <application> b. <uses-sdk>
 - (ii) What steps need to be written to force a new unhandled error in an application? **03**
- (b)** Android applications rely on which different types of resources? Explain how important resource types are stored in Android Project resource directories. **07**
- Q.2 (a)** Write the lifecycle of an Android activity. **07**
- (b)** Explain following tweening transformations **07**
- (i) Rotating
 - (ii) Moving
 - (iii) Scaling
 - (iv) alpha
- OR**
- (b)** Explain how a user can be provided with option menu and also show how to handle the event when a menu option item is selected? **07**
- Q.3 (a)** How many types of progress bars are available? How their XML definitions differ? **07**
- (b)** Which types of layouts are built in to Android SDK framework? Also explain the characteristics of each layout. **07**
- OR**
- Q.3 (a)** For what purpose Chronometer control is? Also explain with code the methods used with Chronometer. **07**
- (b)** Explain how frame by frame animation work? **07**
- Q.4 (a)** Explain the use of SQLiteOpenHelper class. **07**
- (b)** Write the steps used to add the dialog to an activity. **07**
- OR**
- Q.4 (a)** Give example of code that shows how to use HttpURLConnection to query URL. **07**
- (b)** Write the different ways to add logging support to Android application. Where these logging messages appear? **07**
- Q.5 (a)** Show code snippet – how AutoCompleteTextView can provide help to user in typing days(Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday) from an array? **07**
- (b)** How TelephonyManager object can be used to retrieve the state of the phone? Show block of code for that purpose. **07**

OR

Q.5 (a) Write importance of following project files and directories **07**

- (i) AndroidManifest.xml
- (ii) default.properties
- (iii) src folder
- (iv) assets folder
- (v) gen folder
- (vi) res folder

(b) Write example code for the following. **07**

- (i) Registering for clicks on the RadioButton objects within the RadioGroup.
- (ii) Entire RadioGroup can be cleared so that none of the RadioButton objects are selected.
