Seat No.:	Enrolment No.
-----------	---------------

Subject Code:650003

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA – SEMESTER V– EXAMINATION- WINTER 2015

Date:05/12/2015

Tir	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 tagsa. <application> b. <uses-sdk></uses-sdk></application>	04	
	(b)	(ii) What steps need to be written to force a new unhandled error in an application?Android applications rely on which different types of resources? Explain how important resource types are stored in Android Project resource directories.	03 07	
Q.2	(a) (b)	Write the lifecycle of an Android activity. Explain following tweening transformations (i) Rotating (ii) Moving (iii) Scaling (iv) alpha OR	07 07	
	(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	
Q.3	(a)	OR 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) (b)	Explain the use of SQLiteOpenHelper class. Write the steps used to add the dialog to an activity. OR	07 07	
Q.4	(a)	Give example of code that shows how to use HttpURLConnection to query	07	
	(b)	URL. 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	

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

- (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

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.
