

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA - SEMESTER-V • EXAMINATION – SUMMER 2013

Subject Code: 650003**Date: 15-05-2013****Subject Name: Mobile Computing****Time: 02.30 pm - 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) (i) How many permissions Android application has by default? What should be added, where, to gain access to the built in camera? **04**
- (ii) What special permission is needed to access the private user information provided by the Contacts content provider? Also write the code to start reading contact data from Contacts application. **03**
- (b) What is the difference between `AutoCompleteTextView` and `MultiAutoCompleteTextView`? Show how to provide an `AutoCompleteTextView` for the user that can help them type some of the basic colors from an array in the code. Also show the layout resource definition for this `AutoCompleteTextView` control. **07**
- Q.2** (a) The resources are stored in which directory? Which resource types are supported by Android SDK? **07**
- (b) (i) Explain the `setFilters()` method that can be used with `EditText` control. **04**
- (ii) How indicator progress status can be set programmatically? **03**
- OR**
- (b) (i) Which methods can be used with `Chronometer` object? **4**
- (ii) Explain `onCreateContextMenu()` and `registerForContextMenu()` methods. **03**
- Q.3** (a) Explain the lifecycle of the Android activity. **07**
- (b) Explain the key methods that Activity must use to manage a Dialog. **07**
- OR**
- Q.3** (a) Which methods of the `android.util.Log` class can be used to add logging support to Android application? **07**
- (b) Explain `TableLayout` and `TableRow` view attributes. **07**
- Q.4** (a) Write an outline code to show frame by frame animation. Load 2 Bitmap resources and create `AnimationDrawable`. What is the purpose of `setOneShot()` method. **07**
- (b) (i) How `ContentValues` object can be used to insert `firstname` and `lastname` in authors table? **04**
- (ii) What is needed by the application to send an SMS? **03**
- OR**
- Q.4** (a) Explain the four different tweening transformations. **07**
- (b) (i) What steps are required for publishing an application? **04**
- (ii) Which fields need to be entered in the form while uploading the application package? **03**
- Q.5** (a) Explain with example how `SQLiteQueryBuilder` can be used to build and execute `INNER JOIN` between two tables? **07**
- (b) Write line of code that must be inserted in Activity to read a fixed amount of text from a file on a web server. **07**

OR

- Q.5** (a) Explain with example how SQL UNION query can be executed with **07**
rawQuery() method?
- (b) Explain how to use WebView control to load content from a specific website? **07**
What should be written to render raw HTML to webview control?
