

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MCA - SEMESTER-V • EXAMINATION – WINTER • 2014**

**Subject Code: 2650003****Date: 03-12-2014****Subject Name: Mobile Computing****Time: 10:30 am - 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)** What is Android Platform? Discuss various layers of Android Platform architecture in detail with diagram. **07**
- (b)** (i) Differentiate: **04**
1. Activity and Service
  2. Frame-by-frame Animation and Tweened Animation
- (ii) Define the permissions your application needs to register for the following task: **03**
1. Writing files to SD card
  2. Read Contacts
  3. Send SMS
- Q.2 (a)** Discuss the steps for guaranteeing successful publication and deployment of android application. **07**
- (b)** What are the Private and Shared Preferences? Discuss the process of creating, saving and then retrieving User Shared Preferences. **07**
- OR**
- (b)** What is Content Provider? List out the uses of different built-in content providers and also explain any one of them in detail. **07**
- Q.3 (a)** Explain various lifecycle methods of Android Activity with proper diagram. **07**
- (b)** What is EditText? How to create it? Explain with example how to constraint the user input with EditText. **07**
- OR**
- Q.3 (a)** What is Intent? List out the various uses of intent and also explain using example how to pass additional information with intent. **07**
- (b)** What is Layout? List out different Layouts supported by Android system and also explain LinearLayout with its various important attributes. **07**
- Q.4 (a)** Discuss the uses of different Android Development Tools. **07**
- (b)** What is WebView? Explain using code how to load content from specific Website and HTML file into WebView control. **07**
- OR**
- Q.4 (a)** How to add logging support to an android application? Discuss various methods of android.util.Log class. **07**
- (b)** What is SQLite Database? Explain the use of ContentValues for inserting, updating and deleting the SQLite database records. **07**
- Q.5 (a)** What is Application Context? Define various uses of it and also shows how to get the reference of Context for the current process. **07**
- (b)** What is the use of Dialogs? Explain key methods required for managing the Dialog life cycle. **07**

**OR**

- Q.5** (a) What is Android Resource? Differentiate between Default and Alternative resources and also explain working of Dimension resource with example. **07**
- (b) Explain the use of RatingBar with example. **07**

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