

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

**Subject Code: 2650003****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)** List permission required for following task. **07**
1. Send SMS
  2. To access phone state Information
  3. Read contacts
  4. To dial number
  5. Write file to SD Card
  6. Receive SMS
  7. To access online URL
- (b)** What is AndroidManifest.xml file? What kind of information is stored in it? **07**  
Explain structure of it.
- Q.2 (a)** Explain life cycle of android activity with suitable diagram. **07**
- (b)** What is Intent? How are they used to Broadcast and Receive Events? **07**
- OR**
- (b)** What are default resources and what are alternative resources? List different types of resources with required directory filename and xml tag. **07**
- Q.3 (a)** Explain the key methods that an Activity must use to manage a Dialog. **07**  
Write the steps involved in adding the dialog to an activity.
- (b)** Explain with code snippet creation of the option menu and how to handle the event when a menu option item is selected? **07**
- OR**
- Q.3 (a)** Explain TableLayout and Table Row view attributes. **07**
- (b)** What is uses of following widgets and list its important properties and event. **07**
1. Progressbar
  2. SeekBar
  3. RatingBar
  4. MultiAutoComplete TextView
  5. Chronometer
  6. ImageView
  7. ToggleButton
- Q.4 (a)** What is content provider? List useful built-in content providers with its purpose and explain any one of them in detail. **07**
- (b)** 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**
- OR**
- Q.4 (a)** What is SQLite Database? Explain methods for creating, updating, deleting and querying database records. **07**
- (b)** Explain with code snippet Gallery view? How it is differ from Image View? **07**

- Q.5 (a)** Write code snippet for following. **07**  
1. Sending an SMS  
2. Dial a number
- (b)** What is the use of Adapter object in Android sdk? Explain ArrayAdapter in detail. **07**

**OR**

- Q.5 (a)** How content can be loaded into WebView control in the following 3 cases **07**  
1. To load content from a specific website  
2. To load an HTML file  
3. To render raw HTML
- (b)** Which steps are required for publishing an application and guaranteed successful deployment? **07**

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