

GUJARAT TECHNOLOGICAL UNIVERSITY**MCA - SEMESTER-V- EXAMINATION – WINTER 2018****Subject Code: 2650003****Date: 20/11/2018****Subject Name: Mobile Computing****Time: 10.30 am to 1.00 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 uses of following widgets and list its important properties and event. **07**
1. RadioGroup
 2. SeekBar
 3. RatingBar
 4. MultiAutoComplete TextView
 5. EditText
 6. ImageView
 7. Checkbox
- Q.2 (a)** What is Intent? List out the various uses of intent and also explain how to pass Boolean information with intent. **07**
- (b)** What is Android Platform? Discuss various layers of Android Platform architecture in detail with diagram. **07**
- OR**
- (b)** Explain various lifecycle methods of Android Activity with proper diagram. **07**
- Q.3 (a)** What is Resource in android? Explain color, dimension and string resources with example. **07**
- (b)** Which methods should be used to load 3 Bitmap resources and to start animation in case of Frame-By-Frame Animation? Which Method should be used to loop continuously for animation? **07**
- OR**
- Q.3 (a)** What is WebView? Explain using code how to load content from specific Website and HTML file into WebView control. **07**
- (b)** Explain with example to send and receive SMS using telephony API classes along with permissions required for it. **07**
- Q.4 (a)** Explain insert(), update() and delete() methods of SQLite Database taking suitable example. **07**
- (b)** What is Content Provider? List Built-in content providers and explain any one in detail with example. **07**
- OR**
- Q.4 (a)** List built-in layouts. Explain Relative layouts in detail with example. **07**

- (b) List all methods available in Log class with parameters. Explain with code snippet how it is useful in debugging an android application. **07**
- Q.5** (a) List and compare different kinds of Menu available in the Android. Also explain with example how to set or invoke them within the application. **07**
- (b) What is the use of Dialog? Discuss various kinds of dialogs supported by Android. **07**
- OR**
- Q.5** (a) What is the use of AndroidManifest.xml file? Give the purpose of following tags of AndroidManifest.xml file. **07**
1. <activity>
 2. <application>
 3. <uses-sdk>
 4. <intent-filter>
 5. <uses-permission>
- (b) Discuss the steps for guaranteeing successful publication and deployment of android application. **07**
