

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA – SEMESTER – 5 • EXAMINATION – SUMMER 2018

Subject Code: 2650003

Date: 04-May-2018

Subject Name: Mobile Computing (MC)

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)** What is layout? Explain layout in android used to display stack of child view items with attributes and example. **07**
- (b)** What is Activity? Draw diagram to show state changes and explain various method callbacks in activity lifecycle. **07**
- Q.2 (a)** What is content provider? List built in content provider. Explain with example content provider used to retrieve audio and images stored in external SD card. **07**
- (b)** What is dialog? List different types of dialog and methods of dialog lifecycle. **07**
- OR**
- (b)** Explain android's underlying architecture. **07**
- Q.3 (a)** State the importance of AndroidManifest.xml file in android application. Write tags with its attributes used to specify SDK requirement, supported input methods and required device features for an application to this file. **07**
- (b)** What is ArrayAdapter? Explain with example any one data driven container to display data from an array. **07**
- OR**
- Q.3 (a)** How frame-by-frame animation is different from tweened animation? Explain frame-by-frame animation with example. **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 data storage mechanism used to store light weight data at activity level. Explain with example steps to create, store and retrieve data using this mechanism. **07**
- (b)** Explain steps to create signed apk and publishing it on android play store. **07**
- OR**
- Q.4 (a)** Explain with example and write a code to insert, update, delete and query records for SQLiteDatabase. **07**
- (b)** What is WebView? Explain any two classes used to enhance webview with example. **07**
- Q.5 (a)** Explain two ways to manage offload processing from the main UI thread. **07**
- (b)** What is Options Menu? Explain with example to create and handle events for options menu. **07**
- OR**
- Q.5 (a)** What is Resource in android? Explain color, dimension and drawable resources with example. **07**
- (b)** Explain in detail ProgressBar, SeekBar and RatingBar. **07**
