

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA Integrated - SEMESTER– VII EXAMINATION – SUMMER - 2017

Subject Code:4470611

Date:02-05-2017

Subject Name: Mobile Programming

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) Differentiate between: (any 2) 04**
i) Activity & Service
ii) Frame-by-Frame Animation & Tween Animation
iii) Gallery View & Image View **03**
- (II) Write down the permissions required for the following:
i) Using internet resources
ii) Retrieve Contact details
iii) Sending & Receiving SMS
- (b) Explain Shared Preferences. Discuss the process of creating, saving and then retrieving Shared Preferences. 07**
- Q.2 (a) Explain different kind of menus available in the Android. Also explain with example how to set or invoke them within the application. 07**
- (b) What is Content Provider? Enumerate built-in content providers and also explain any one of them in detail. 07**
- OR**
- (b) What is the use of Dialog? Discuss various kinds of dialogs supported by Android. 07**
- Q.3 (a) Explain various lifecycle methods of Android Activity with proper diagram. 07**
- (b) How to add logging support to an android application? Discuss various methods of android.util.Log class. 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) What is Layout? List out different Layouts supported by Android system and also explain RelativeLayout with example. 07**
- Q.4 (a) Discuss SQLite Database. Explain with suitable example for inserting, updating & deleting database records. 07**
- (b) Explain the use of AndroidManifest.xml file. Discuss its structure with example. 07**
- OR**
- Q.4 (a) Explain TableLayout and TableRow view attributes. 07**
- (b) Explain the following widgets with syntax and suitable example: (any 2) 07**
1. Spinner 2. SeekBar 3. MultiAutoCompleteTextView 4. Chronometer
- Q.5 (a) Discuss the uses of different Android Development Tools. 07**
- (b) What is Android Resource? Explain using example how to define and work with String, Color and Boolean resource. 07**
- OR**
- Q.5 (a) Explain Android software stack in detail. 07**
- (b) Discuss the use of Spinner Control with example. 07**
