

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA – SEMESTER – V • EXAMINATION – SUMMER 2018

Subject Code: 650003

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) List and describe in detail the Android development tools. **07**
(b) Explain the following Android Tools **07**
(i) Dalvik Debug Monitor Server
(ii) Android Debug Bridge
- Q.2** (a) What is the purpose of Android Stack? Explain the life cycle of Android activity with diagram. **07**
(b) What are default resources and alternative resources? Explain the Android mechanism for loading the appropriate resources at run time? How color resources, dimension resources, drawable resources can be added and retrieved? **07**
- OR**
- (b) Write a snippet to send an SMS. **07**
- Q.3** (a) What is AndroidManifest.xml file? Define the permissions your applications need to register for the following tasks **07**
(i) Writing files to SD card
(ii) Read Contacts
(iii) Send SMS
- (b) What do you mean by Shared Preferences? Explain the process of creating, saving and retrieving Shared User Preferences **07**
- OR**
- Q.3** (a) What is Layout? List out the Layouts supported by Android System. Explain the Relative Layout & Table Layout in detail. **07**
(b) Define Intent. Explain the type and uses of Intent in an Android Application with example. **07**
- Q.4** (a) Differentiate Option menu and Context menu. Write the snippet to create an Option menu and handle the events when any option in the Option menu is selected. **07**
(b) What do you mean by Content Providers? List and explain the Built-in content providers in detail. **07**
- OR**
- Q.4** (a) (i) Write snippet to set an image in ImageView. **03**
(ii) Explain the use of following helpful methods of android.util.Log class **04**
a. Log.e()
b. Log.w()
c. Log.i()
d. Log.d()

- (b) Write the steps to create a SQLite database. Write snippet to insert, update query and delete the records in the database. 07

- Q.5** (a) What are the uses of following widgets and list their important properties and event 07
(i)Progressbar
(ii)SeekBar
(iii)RatingBar
(iv)Spinner
(v)Chronometer
(vi)ImageView
(vii)ToggleButton
- (b) What is Dialog? Explain the different types of dialogs supported in Android. 07

OR

- Q.5** (a) Write the steps to publish and deploy an Android application. 07
- (b) Explain the following tweening transformations with example 07
(i) Rotation
(ii)Moving
(iii)Scaling
(iv)Alpha
