

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA - SEMESTER-V • EXAMINATION – SUMMER - 2017

Subject Code:2650003

Date:03/06/2017

Subject Name: Mobile Computing

Time:02.30 PM TO 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) Choose the Correct Answer

07

I - How to pass the data between activities in Android?

- A – Intent
- B - Content Provider
- C - Broadcast receiver
- D - None of the Above

II What is Manifest.xml in android?

- A - It has information about layout in an application
- B - It has the information about activities in an application
- C - It has all the information about an application
- D - None of the above

III - What is singleton class in android?

- A - A class that can create only one object
- B - Anonymous class
- C - Java class
- D - Manifest file

IV - What is log message in android?

- A - Log message is used to debug a program.
- B - Same as printf()
- C - Same as Toast().
- D - None of the above.

V - What is the life cycle of foreground activity in android?

- A - onCreate()->onStart()->onResume()-> onStop() -> onRestart
- B - onCreate() -> onStart() -> onResume() ->onStop()
- C - onCreate() -> onStart() -> onResume()
- D - None of the above

VI - Is it possible to have an activity without UI to perform action/actions?

- A - Not possible
- B - Wrong question
- C - Yes, it is possible
- D - None of the above

VII - Which features are considered while creating android application?

- A - Screen Size
- B - Input configuration
- C - Platform Version
- D - Device features
- E - All of above

- Q.1 (b) Answer the Following 07**
- I** Define the permissions your application needs to register for the following task: **03**
- I. Writing files to SD card
- II. Read Contacts
- III. Send SMS
- II** List out <manifest> tag in Android manifest file and use of any three tag of < manifest> tag **04**
- Q.2 (a)** What is Android Platform? Discuss various layers of Android Platform architecture in detail with diagram. **07**
- (b)** What is Intent? List out the various uses of intent and also explain using example how to pass additional information with intent. **07**
- OR**
- (b)** What is Layout? List out Different Layout available in Android. Explain important Table Layout and Table Row View attributes. **07**
- Q.3 (a) Differentiate the Followings (Any Two) 07**
- I** Context Menu And Option Menu
- II** Frame By Frame Animation and Tweened Animation
- III** Private and Shared Preferences
- Q. 3 (b)** Explain various methods of Canvas and Paint class with example. **07**
- OR**
- Q.3 (a)** Explain Spinner and AutoCompleteTextView widgets taking suitable example. **07**
- (b)** Explain various lifecycle methods of Android Activity with proper diagram. **07**
- Q.4 (a)** How Web View definition looks like in layout resource? How to load content Into a Web View Control? **07**
- (b)** How to add logging support to an android application? Discuss various methods of android.util.Log class. **07**
- OR**
- Q.4 (a)** What is SQLite Database? Explain the use of Content Values for inserting, updating and deleting the SQLite database records. **07**
- (b)** What information can be retrieved from the HttpURLConnection? **07**
- Q.5 (a) Answer the Following 07**
- I** What is AVD?
- II** Define: Context, Activity
- III** Define: Style, theme
- (b)** What is content provider? List useful built-in content providers with its purpose and explain any one of them in details **07**
- OR**
- Q.5 (a)** What steps are required for publishing an application? **07**
- (b)** Explain reading and writing files to default directory with example **07**
