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: I. Writing files to SD card II. Read Contacts III. Send SMS	**03**
	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**

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