

## Professional Masters in Information Technology (PMIT) Institute of Information Technology

Jahangirnagar University

## PMIT Final Examination (Fall: 2018)

Course Code: IT-6113 Marks: 60

Course Title: Mobile Application Development

Time: 3 Hours

Answer any  $\underline{FIVE}$  questions

## (All parts of a particular question must be answered consecutively)

l(a) (b) (c)	What is Android? Write some features of Android. What are the different attributes/properties in Android? Draw the Android architecture and write the main component used an Android application?	4 4 4
2(a)	Explain step by step how to send the data from one Activity to Another Activity in Android applications.	5
(b)	Define listener and handler with example. What is the difference between listener and handler?	5
(c)	Write about an Android Emulator or AVD with its features and limitations.	2
3(a)	Explain Eclipse IDE and Android Development Tools (ADT) Plug-in with their	5
(b) (c)	purpose in Android. What's the difference between class, method and activity in android? Make list of Android platform version, code name with their API level.	3 4
4(a)	What are the seven lifecycle methods of Android activity and what is their	7
(b)	purpose? Explain with necessary code and diagram. What is an Intent in Android? How many steps are in MainActivity to reach	3
	super Activity? With example, show how to use putExtra() and getExtra() for string data.	2
(c) 5(a) (b) (c)	Explain ListView with example.  Define the Fragment. Draw the Fragment life cycle method of Android.  Define Dalvik Virtual Machine (DVM).	5 5 2
6(a)	Briefly explain different types of Adapter in Android. What is SQLite? How does it differ from client-server database management	4
(b) (c)	what is SQLite: How deep systems?  Differentiate between the following terms (any four):  i. Intent and Service  ii. Adapter and Receiver  iii. SnackBar and Toasts  iv. Widget and OpenGL  v. Fill_parent and Wrap_content  vi. Linearlayout and Relativelayout	4

7(a) What is Toast in Android? Explain the following code(s): i. Toast toast= Toast.makeText(MainActivity.this, "Jahangirnagar University", Toast.LENGTH\_SHORT); toast.setGravity(Gravity.CENTER,0,0); toast.show(); ii. videoView= (VideoView) findViewById(R.id.videoViewId); Uri uri= Uri.parse("android.resource://"+getPackageName()+"/"+R.raw.new\_house); videoView.setVideoURI(uri); videoView.start(); (b) Describe the following folders and files of Android. ☐ Widgets Ab TextView OK Button ToggleButton CheckBox ( RadioButton A- CheckedTextView Custom - AppCompat & CardView 피스 GridLayout ¬ ≥ RecyclerView Toolbar (c) Answer the following: i. Graphically explain Margin and Padding Attributes.

ii. What are the different View and ViewGroup in Android?