Professional Masters in Information Technology (PMIT)
Institute of Information Technology
Jahangirnagar University
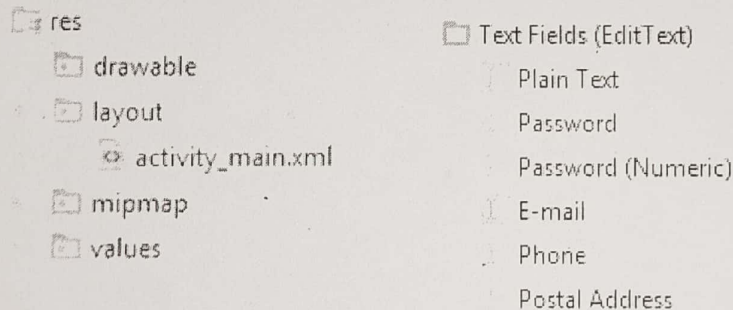
PMIT Final Examination
Fall Semester: 2019

Course Code: IT-6113
Marks: 60

Course Title: Mobile Application Development
Time: 3 Hours

Answer any **FIVE** questions
All parts of a particular question must be answered consecutively

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1(a)	Where use SP and DP in Android? Write some features of Android.	4
(b)	Define Mobile Platform and write some examples of good platform and some features of WAP.	4
(c)	What is for Android Manifest.xml? What information contain Manifest.xml and R.java files?	4
2(a)	Draw the Android architecture and write the main component used an Android application.	5
(b)	Make list of Android platform version, code name with their API level.	5
(c)	What is Padding and Gravity in Android?	2
3(a)	What is a "bundle" and Intent in Android application? Differentiate between Bundle and Intent.	4
(b)	Describe the following folders and files of Android.	4

```
res                          Text Fields (EditText)
   drawable                      Plain Text
   layout                        Password
      activity_main.xml          Password (Numeric)
   mipmap                        E-mail
   values                        Phone
                                 Postal Address
```

(c) Explain background of the following code: 4

```
@Override
  protected void onCreate(Bundle savedInstanceState) {
     super.onCreate(savedInstanceState);
     setContentView(R.layout.activity_main);

     loginButton = (Button) findViewById(R.id.loginButtonId);
     textView = (TextView) findViewById(R.id.textViewId);

     loginButton.setOnClickListener(new View.OnClickListener() {
```

4(a) Explain Activity Lifecycle used in Android (use necessary code and diagram). 4
(b) What is listener? Write down some common listener events in Android. 4
(c) What's the difference between class, method and activity in android? 4

5(a) Define the Fragment. Draw the Fragment life cycle method of Android. 4
(b) Write the necessary XML and Java codes for designing a simple calculator. 4
(c) What is SQLite? How does it differ from client-server database management 4
systems?

6(a) What is Android Layout? Briefly describe different types of Layout with 4
respective image/diagram.
(b) With example explain the following properties used in Layout: 4
orientation, gravity, layout_weight, weightSum, alignParentRight
(c) Make a comparison table among different Android Layouts? 4

7(a) Define listener and handler with example. What is the difference between listener 4
and handler?
(b) How to send the data from one Activity to Another Activity in Android 4
applications- explain step by step.
(c) Write the meaning of the following: 4

public void onClick(View view)

<?xml version="1.0" encoding="utf-8"?>

public class MainActivity extends AppCompatActivity

loginButton = (Button) findViewById(R.id.*loginButtonId*);

category android:name="android.intent.category.LAUNCHER"

xmlns:android="http://schemas.android.com/apk/res/android"?