Professional Masters in Information Technology (PMIT)
Institute of Information Technology
Jahangirnagar University

PMIT Special Examination (March-2019)

Course Code: IT-6113

Title: Mobile Application Development
Time: 3 Hours

Marks: 60

Answer any **FIVE** questions

__All parts of a particular question must be answered consecutively__

1(a). What is Android and why it is popular platform? Write some features of Android.   5
(b). What is API? Mansion the android version name sequentially.   4
(c). Draw the Android architecture and write the main component used in Android.   3

2(a). Sketch the Android and iOS application development.   4
(b). Draw Android activities interface and labeling it.   4
(c). With example show how to use putExtra() and getExtra() for string data.   4

3(a). How to setup Android for Eclipse IDE? Describe step by step.   5
(b). Explain how to send the data one activity to another activity in android applications.   5
(c). Explain Android Manifest.xml file in detail.   2

4(a). What is SQLite? How does it differ from client-server database management systems?   5
(b). What's the difference between class, method and activity in android?   3
(c). Interpret the following android code line by line.   4

```
android:layout_height="fill_parent"
android:orientation="vertical">

<TextViewandroid:id="@+id/text"
android:textSize="50sp"
android:textColor="#0832ca"
android:layout_height="wrap_content"
android:text="Welcome to IIT-JU"/>

<Buttonandroid:id="@+id/button"
android:layout_width="wrap_content"
android:text="Hello, This is Button"/>

</LinearLayout>
```

5(a). Write some of the advantages of the Android platform?   2

(b). What are the seven lifecycle methods of Android activity and what is their   5 purpose?

(c). Give a typical example of how two UI modules defined by fragments can be   5 combined into one activity for a tablet design, but separated for a handset design.

6(a). What are the different data types used by Android?.   5

(b). What are different data storage options available in Android?   5

(c). Define Dalvik Virtual Machine (DVM).   2

7. Differentiate between the following terms: 12

    i. JDK and IDEs
    ii. Intent and Service
    iii. SnackBar and Toasts
    iv. Fill_parent and Wrap_content
    v. Linearlayout and Relativelayout
    vi. Android.widget and Android.opengl