

## **Institute of Information Technology**

Jahangirnagar University

## Professional Masters in IT

1st Trimester Final Examination, Fall 2019 [Intake: Fall 2019 & Summer 2019]

Duration: 3 Hours

Full Marks: 60

6

Course Code: PMIT - 6113

Course Title: Mobile Application Development

## Do not write anything on the question paper.

There are 7 (Seven) questions. Answer any 5 (Five) of them.

Figures in the right margin indicate marks.

- 1 (a) Define Mobile Platform and write some examples of good platform and some 4 features of WAP.
  - (b) Make list of Android platform version, code name with their API level. 4
  - (c) What is for Android Manifest.xml? What information contain Manifest.xml 4 and R.java files?
- 2 (a) What is a "bundle" and "gradle" in Android application? Differentiate between 3
  - (b) What are the different types of "Menu" used in Android? Write the meaning of 3

the following:

Ownig.				
Description				

- (c) Interpret the following android code line by line.
  - 1. @Override

public boolean onCreateOptionsMenu(Menu menu) {
 getMenuInflater().inflate(R.menu.options\_menu, menu);
 return true;

2. @Override

public void onInit(int status) {.
 if (status == TextToSpeech.SUCCESS) {
 int result = textToSpeech.setLanguage(Locale.US);
 String text = speakText.getText().toString();
 textToSpeech.speak(text,
TextToSpeech.QUEUE\_FLUSH, null, null);
 }



3	(a) (b)	of people interned applaint with necessary codes and grann?	4
	(c)	Differentiate between Implicit Intent and Explicit Intent.	4
4	(a)	What is Android Layout? Briefly describe different types of Layout with respective diagram	4
	(b) (c)	Make a comparison table among disc.	4 4
5	(a) (b) (c)	Write the necessary XML and Java codes for designing a simple calculator. What is listener? Write down some common listener events in Android. What's the difference between class, method and activity in android?	4 4 4
	(a) (b) (c)	What is for Content Provider in Android and what are different steps to creating a Content Provider? Explain their functionality with diagram. What is for Fragment? Draw the Fragment life cycle method of Android. Define listener and handler with example. What is the difference between listener and handler?	4 4 4 4
7 (	(a) b)	Draw and explain Activity Lifecycle of Android (use necessary code and diagram).  Sketch the entire, visible and foreground lifetimes of android activity or fragment transition during execution.  How many callback methods are in android? Explain their behavior at different stages in Android.	4 4 4