



Professional Masters in Information Technology (PMIT)
Institute of Information Technology
Jahangirnagar University
PMIT Final Examination (Fall 2022)

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)

- 1 (a) Android is an OS, an open source and a platform - explain why? 4
(b) Draw the Android architecture and write the main component used in an Android application. 4
(c) What is for screen orientation in Android? 2
- 2 (a) What is for AndroidManifest.xml file? Write necessary code for AndroidManifest.xml. 4
(b) Make a list of Android features with their functions. 4
(c) What is for: 2
`android:textColor="#0832ca"`
`android:textSize="30sp"`
- 3 (a) What is Open Handset Alliance (OHA) and what is its purpose? 4
(b) Sketch the Android App/Project Folder Structure. 4
(c) Differentiate between: 2
TextView and ScrollView
- 4 (a) What is Android Layout? Briefly describe different types of Layout with respective diagram. 4
(b) What is Android Intent for, and how many types of Intent are? 4
(c) Differentiate between Linear and Relative Layout? 2
- 5 (a) How to create "menu" in Android, what are the different items of "menu"? 4
(b) Which method is used to handle item click event for popup menu (onMenuItemClick())? 4
(c) How to call the method "MenuInflater.inflate()" for "menu"? Write the code. 2
- 6 (a) Which method is used to handle item click event for context menu (onContextItemSelected())? 4
(b) Explain the activities of NotificationCompat, PendingIntent and NotificationManager methods. 4
(c) Write a simple code of Zoom In and Zoom Out for Animation. 2
- 7 (a) How many callback methods are in android? Explain their behavior at different stages in Android. 5
(b) Sketch the entire, visible and foreground lifetimes of android activity or fragment transition during execution. 5