



Professional Masters in Information Technology (PMIT)
Institute of Information Technology
Jahangirnagar University
PMIT Final Examination (Spring: 2023)

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) Graphically explain the Android features. 5
(b) What are the main folders and files required to implement an application in android studio? 5
(c) What is Open Handset Alliance (OHA) and what is its purpose? 2
- 2(a) How many layers are in Android Architecture? Explain the roles and features of each layers. 5
(b) What is for string.xml file? Write necessary code for activity_main.xml file. 5
(c) Differentiate between: 2
 android:layout_width="match_parent"
 android:layout_width="wrap_content"
- 4(a) Make a list of Android version names, code name with their API levels. 5
(b) What are the two modes of UI and why they are for? 5
(c) What is for: 2
 android:textColor="#bd82ac"
 android:textSize="40sp"
- 4(a) How many callback methods are in android? Explain their behavior at different stages in Android. 6
(b). Sketch the entire, visible and foreground lifetimes of android activity or fragment transition during execution. 6
- 5(a) What is Android Layout? Briefly describe different types of Layout with respective diagram. 6
(b) Differentiate between Linear and Relative Layout? 3
(c) What is Android Intent for, and how many types of Intent are? 3
- 6(a) What is the method to handle a menu item click events? Write the code. 4
(b) Which method is used to handle item click event for context menu (onContextItemSelected())? 4
(c) Difference between context menu and option menu in android. 4
- 7(a) Which class, object and properties are used for notification? Write a sample code using these. 4
(b) Write about Firebase Cloud Messaging and the role of Inflate. 4
(c) Explain the method setProgress(max, progress, false), and loadAnimation() and startAnimation() methods 4