

Institute of Information Technology

Jahangirnagar University

Professional Masters in IT

1st Semester Final Examination-Spring 2022

Intake: Spring 2022, Fall 2021

Duration: 3 Hours

Full Marks: 60

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

(a) (b) (c)		4 4
(a) (b)	Make a list of Android features with their functions. i. Explain Android Margin and Padding Attributes. ii. What is for: i. android:textColor="#0832ca" ii. android:textSize="30sp" i. How to call the method "MenuInflater.inflate()" for "menu"? ii. What is the method to handle a menu item click events?	4
(a) (b) (c)	What is Open Handset Alliance (OHA) and what is its purpose? Sketch the Android App/Project Folder Structure. What are the main folders and files required to implement an application in android studio?	4 4 4
(a) (b) (c)	How many layers are in Android Architecture? Explain the roles and features of each layers. What is for activity_main.xml file? Write necessary code for activity_main.xml file. i. What are the two modes of UI and why they are for? ii. Write the meaning of setProgress(0, 0, false).	4 4 4
(a) (b)	How many callback methods are in android? Explain their behavior at different stages in Android. Sketch the entire, visible and foreground lifetimes of android activity or fragment transition during execution.	6
(a) (b) (c)	Draw and explain Activity Lifecycle of Android (use necessary code and diagram). How to create "menu" in Android, what are the different items of "menu"? Which class, object and properties are used for notification? Write a sample code using these.	444
(a) (b)	What is Android Layout? Briefly describe different types of Layout with respective diagram. With example explain the following properties used in Layout: orientation, gravity, layout_weight, weightSum, alignParentRight. What are the available animations used in Android?	5 5 2
	(b) (c) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	 (b) Draw the Android architecture and write the main component used an Android application. i. What is for screen orientation in Android? ii. Differentiate between: TextView and ScrollView (a) Make a list of Android features with their functions. i. Explain Android Margin and Padding Attributes. ii. What is for: i. android:textColor="#0832ca" ii. android:textSize="30sp" (c) i. How to call the method "MenuInflater.inflate()" for "menu"? iii. What is the method to handle a menu item click events? (a) What is Open Handset Alliance (OHA) and what is its purpose? (b) Sketch the Android App/Project Folder Structure. (c) What are the main folders and files required to implement an application in android studio? (a) How many layers are in Android Architecture? Explain the roles and features of each layers. (b) What is for activity_main.xml file? Write necessary code for activity_main.xml file. (c) i. What are the two modes of UI and why they are for? ii. Write the meaning of setProgress(0, 0, false). (a) How many callback methods are in android? Explain their behavior at different stages in Android. (b) Sketch the entire, visible and foreground lifetimes of android activity or fragment transition during execution. (a) Draw and explain Activity Lifecycle of Android (use necessary code and diagram). How to create "menu" in Android, what are the different items of "menu"? (c) Which class, object and properties are used for notification? Write a sample code using these. (a) What is Android Layout? Briefly describe different types of Layout with respective diagram. (b) With example explain the following properties used in Layout: orientation, gravity, layout_weight, weightSum, alignParentRight.

