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**Question Paper Code: 47804**

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2018

Seventh Semester

Information Technology

14UIT704 – MOBILE APPLICATION DEVELOPMENT

(Regulation 2014)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. Android is licenced under which open source licensing license?  
(a) Gnu's GPL      (b) Apache/MIT      (c) OSS      (d) Sourceforge
2. Which one is not a nick name of a version of Android?  
(a) Cupcake      (b) Gingerbread      (c) Honeycomb      (d) Muffin
3. What is contained within the Layout xml file?  
(a) Orientations and layouts that specify what the display looks like  
(b) The permissions required by the app  
(c) The strings used in the app.  
(d) The code which is compiled to run the app.
4. Parent class of Activity  
(a) Object      (b) Context      (c) Activity Group      (d) Context theme wrapper
5. What is contained within the Layout at xml file?  
(a) The code which is compiled to run the app  
(b) The strings used in the app  
(c) The permissions required by the app  
(d) Orientations and layouts that specify what the display looks like

6. Which of the following are not a component of an APK file?
- (a) Dalvik executable                      (b) Native Libraries  
(c) Resources                                (d) All of these are components of the APK
7. When the activity is not in focus, but still visible on the screen it is in?
- (a) Running State                            (b) Paused State  
(c) Stopped State                            (d) Destroyed State
8. Which of the following is not a state in the lifecycle of a service?
- (a) Starting                      (b) Running                      (c) Destroyed                      (d) Paused
9. Which is not included in the Android application framework?
- (a) WindowManager                            (b) NotificationManager  
(c) DialerManager                            (d) PackageManager
10. Which of the following is a NOT valid form of notification invoked by the NotificationManager?
- (a) A Flashing LED                            (b) A persistent icon in the status bar  
(c) A sound played                            (d) A SMS sent

PART - B (5 x 2 = 10 Marks)

11. What is android?
12. What is the use of intent?
13. What is Activity Lifecycle?
14. How do create a new thread?
15. List the methods suitable for User Interface testing

PART - C (5 x 16 = 80 Marks)

16. (a) Discuss the Android versions with list names and features. (16)

Or

- (b) (i) Write the various elements in the main window of Android Studio? Explain. (6)
- (ii) An Android application may be tested by installing and running it either on a physical device or in an Android Virtual Device (AVD). How will you create an Android Virtual Device (AVD) in Android Studio? (10)

17. (a) (i) What are the key advantages to using XML resource files to design a user interface as opposed to writing a Java code . (8)
- (ii) Apply the grid layout concept for adding and Viewing buttons as child view in XML resource files. (8)

Or

- (b) Apply the Table layout concepts in View Group that displays child View elements in rows and columns using XML. (16)
18. (a) Write a overview of intents in the form of explicit intents and implicit intents together with an introduction to intent filters. (16)

Or

- (b) Explain the importance of saving and restoring the state of a user interface at particular points in the lifetime of an activity. (16)
19. (a) Implement Broadcast receivers by the Android Broadcast Receiver subclass and overriding the onReceive() method with an example . (16)

Or

- (b) Develop android applications that allows to invoke the standard Android video recording interface. (16)
20. (a) (i) Create a SQLite on an Android Virtual Device (AVD). (8)
- (ii) Create a Java Classes for Android SQLite. (8)

Or

- (b) Create an Android application using placement database connectivity (16)

