

SARDAR PATEL UNIVERSITY
MASTER OF COMPUTER APPLICATIONS
SEMESTER – IV

PS04EMCA22 - Application Development for the Android Platform

Monday 15th April 2019

Time: 2:00 pm to 5:00 pm

Max. Marks: 70

Q-1 Choose the most appropriate option for each question:

[8]

1. Which of the following java packages is not available in the Android SDK?

- A) javax.swing B) java.util
C) java.net D) javax.xml

2. Which of the following is an example of a ViewGroup?

- A) TextView B) Button
C) Layout D) None of these

3. Which of the following can be used to send data from one app to another?

- A) Database B) Broadcast receiver
C) Adapter D) Intent

4. Which of the following cannot be used as part of intent filters?

- A) Category B) LAUNCHER_MAIN
C) URI D) MIME type

5. Which of the following is a method of the SQLiteOpenHelper class?

- A) onWrite() B) onInsert()
C) onUpgrade() D) onRead()

6. Which of the following is used by content providers to identify resources?

- A) Id B) Primary key
C) WHERE clause D) URI

7. Which command is used to debug Android applications?

- A) adb B) abd
C) dba D) bda

8. Which permission is required to access the network from an Android app?

- A) NETWORK B) INTERNET
C) ACCESS_NETWORK D) CONNECT_INTERNET

Q-2 Answer the following questions (Any Seven):

[14]

1. Name the two runtimes used for executing Android code.
2. List the drawable subfolders of the resource folder.
3. What is the full form of APK? What does an APK file contain?
4. Explain the LinearLayout in brief.
5. Which class in an Android app holds the ids defined in the app? Write a code statement showing how we can obtain a reference to a view using its id.
6. List the abstract methods in the LoaderCallbacks interface.
7. Differentiate between implicit and explicit intents.
8. List the types of animations in Android.
9. List the classes used to play audio and video under Android.

(1)

(P.T.O)

Q-3

- A. Write a short note on the use of resources in Android. [6]
B. Explain how to use Toast, AlertDialog and Log. [6]

OR

- B. Explain the following concepts in Android development in brief: AVD, Activity, Service, Broadcast Receiver, Context, the UI thread [6]

Q-4

- A. Explain any three Android activity lifecycle events. [6]
B. Assuming there is a TextView, an EditText and a Button with ids tvMessage, etName and btClick respectively, write the onCreate() handler so that when the user presses the button, the contents of the EditText are transferred to the TextView. [6]

OR

- B. Describe the class in the Android SDK used for performing operations in the background. [6]

Q-5

- A. Describe the use of adapters and ListView in Android. [6]
B. Explain notifications in Android with an overview of the code to generate them. [6]

OR

- B. Write a short note on the SQLite database. Explain the characteristics in which it differs from typical RDBMS systems. [6]

Q-6

- A. Write a short note on location access and its applications in Android. [6]
B. List the contents of the Android manifest file. [6]

OR

- B. Write a short note on content providers. Also explain the use of different standard storage directories used by Android apps. [6]

