Mobile Application Development - Revised Question Bank

Section A: Multiple Choice Questions (1 Mark Each)

Q1. Which of the following is the core layer of Android architecture?

    A. Libraries

    B. Linux Kernel

    C. Application Framework

    D. Dalvik VM

    Answer: B

Q2. Which component is used to perform tasks in the background without a UI?

    A. Activity

    B. Service

    C. Content Provider

    D. Intent

    Answer: B

Q3. Which file contains the application permissions in Android?

    A. config.xml

    B. strings.xml

    C. AndroidManifest.xml

    D. build.gradle

    Answer: C

Q4. Which layout arranges components in a single column or row?

    A. RelativeLayout

    B. FrameLayout

    C. LinearLayout

    D. ConstraintLayout

    Answer: C

Q5. Which database is used in Android for local data storage?

    A. Oracle

    B. MySQL

    C. SQLite

    D. Firebase

Answer: C

Q6. Which Android component is used to handle broadcast messages?

A. Service

B. Broadcast Receiver

C. Activity

D. Fragment

Answer: B

Q7. Which format is commonly used for data exchange between web and Android apps?

A. XML

B. JSON

C. CSV

D. HTML

Answer: B

Q8. Which class is used to display web content in Android applications?

A. WebView

B. ListView

C. RecyclerView

D. CardView

Answer: A

Q9. Which tool is used for debugging Android applications?

A. AVD

B. ADB

C. SDK Manager

D. DDMS

Answer: B

Q10. Which file format is used for distributing Android applications?

A. .exe

B. .apk

C. .zip

D. .aab

Answer: B

Section B: One Mark Questions (1 Mark Each)

Q1. Define Android.

Q2. What is an Activity in Android?

Q3. List two types of Android resources.

Q4. What is an Intent?

Q5. Define RecyclerView.

Q6. What is SharedPreferences used for?

Section C: Fill in the Blanks (1 Mark Each)

Q1. Android is based on the _____ kernel.

Q2. The file that defines permissions for an Android app is _____.

Q3. An _____ is used to navigate between activities.

Q4. The UI design guidelines for Android are known as _____ Design.

Q5. The extension of Android package files is _____.

Section D: Short Programming Questions (Max 6 Marks Each)

Q1. Write a program to create a simple login form using EditText and Button.

Q2. Write a code snippet to navigate from one Activity to another using Intent.

Q3. Write an Android program to store and retrieve data using SharedPreferences.

Q4. Write an example to display a list using RecyclerView.

Q5. Write a short code to parse JSON data using JSONObject class.

Section E: Theory / Descriptive Questions (Max 6 Marks Each)

Q1. Explain Android architecture with a neat diagram. (Max 6 Marks)

Q2. Describe the lifecycle of an Activity with suitable diagram. (Max 6 Marks)

Q3. Explain the purpose and structure of AndroidManifest.xml file. (Max 6 Marks)

Q4. Differentiate between implicit and explicit Intents. (Max 6 Marks)

Q5. Explain the types of layouts used in Android applications. (Max 6 Marks)

Q6. Describe the role of AsyncTask in Android development. (Max 6 Marks)

Q7. Discuss the steps involved in publishing an Android application. (Max 6 Marks)

Q8. Explain SQLite database operations in Android. (Max 6 Marks)

Q9. What are Content Providers in Android? Explain with example. (Max 6 Marks)

Q10. Explain versioning and signing of Android applications. (Max 6 Marks)