

Certainly! Here are 20 multiple-choice questions (MCQs) on Android development with options. Please note that the answers are provided at the end:

1. ****What does APK stand for in Android development?****
 - A) Android Package Kit
 - B) Application Package Kit
 - C) Android Programming Kernel
 - D) Application Program Kit
2. ****Which layout is typically used for a single item in a list in Android?****
 - A) RelativeLayout
 - B) LinearLayout
 - C) FrameLayout
 - D) RecyclerView
3. ****What is the purpose of the AndroidManifest.xml file in an Android app?****
 - A) Storing user preferences
 - B) Defining the app's structure and metadata
 - C) Managing database connections
 - D) Handling network requests
4. ****What is the function of an "Intent" in Android?****
 - A) It represents an image resource
 - B) It defines a UI layout
 - C) It facilitates communication between components
 - D) It manages background services
5. ****Which component is responsible for handling user interactions in Android?****
 - A) Activity
 - B) Fragment
 - C) Service
 - D) BroadcastReceiver
6. ****What is the role of the "adb" tool in Android development?****
 - A) Android Debug Bridge - facilitating communication with the emulator or device
 - B) Android Database Builder - creating SQLite databases
 - C) Android Design Builder - designing UI layouts
 - D) Android Device Backup - backing up app data
7. ****Which method is called when an Android Activity is first created?****
 - A) onStart()
 - B) onCreate()
 - C) onResume()
 - D) onInitialize()

8. ****What is the purpose of the "RecyclerView" in Android?****
- A) Displaying a collection of views in a scrollable list
 - B) Handling touch gestures on the screen
 - C) Managing the app's preferences
 - D) Controlling the app's navigation flow
9. ****Which file contains the layout structure for an Android Activity?****
- A) activity_main.xml
 - B) AndroidManifest.xml
 - C) layout.xml
 - D) main.xml
10. ****What is the function of the "Gradle" build system in Android Studio?****
- A) Managing virtual devices
 - B) Building and managing project dependencies
 - C) Designing UI layouts
 - D) Debugging code
11. ****What is the purpose of the "FragmentManager" in Android?****
- A) Managing the app's file system
 - B) Handling network requests
 - C) Managing fragments and their transactions
 - D) Managing the app's permissions
12. ****Which class is used to perform background tasks in Android?****
- A) AsyncTask
 - B) BackgroundTask
 - C) ThreadTask
 - D) BackgroundWorker
13. ****What is the role of the "SQLiteOpenHelper" class in Android development?****
- A) Managing device connectivity
 - B) Handling user authentication
 - C) Managing SQLite database creation and version management
 - D) Controlling app animations
14. ****Which method is called to inflate a layout in Android?****
- A) inflateLayout()
 - B) loadLayout()
 - C) createLayout()
 - D) LayoutInflater.inflate()
15. ****What is the purpose of the "Parcelable" interface in Android?****

- A) Managing preferences
- B) Enabling inter-process communication
- C) Handling touch events
- D) Defining UI animations

16. ****Which class is responsible for managing the app's shared preferences?****

- A) SharedPreferencesManager
- B) PreferenceManager
- C) SharedPrefsHandler
- D) AppPrefsManager

17. ****What is the significance of the "R.java" file in Android development?****

- A) It contains resources like images and layouts
- B) It is the main activity of the app
- C) It handles runtime permissions
- D) It manages background services

18. ****Which attribute is used to specify the entry point for an Android app?****

- A) main-activity
- B) app-entry
- C) launch-activity
- D) launcher

19. ****What is the purpose of the "Snackbar" in Android?****

- A) Displaying brief messages to the user
- B) Managing app navigation
- C) Handling background tasks
- D) Providing app preferences

20. ****Which lifecycle method is called when an Android Activity is no longer visible to the user?****

- A) onPause()
- B) onStop()
- C) onDestroy()
- D) onExit()

****Answers:****

1. A, 2. D, 3. B, 4. C, 5. A, 6. A, 7. B, 8. A, 9. A, 10. B, 11. C, 12. A, 13. C, 14. D, 15. B, 16. B, 17. A, 18. D, 19. A, 20. B