



Dezyne École College

Bachelor of Computer Application (B.C.A.) Second Year-4th Semester

Android Programming

Part-A (2 Marks Each, Short Answer Questions – 10 Questions)

(Answer in ~50 words)

1. Define a mobile application.
2. What is the difference between native and hybrid apps?
3. List any two front-end components in Android.
4. Mention two back-end services in mobile app development.
5. What is Android Studio?
6. What is an Intent in Android?
7. List the lifecycle methods of an Android activity.
8. Define a Fragment.
9. What is a Toast in Android?
10. Mention any two basic UI views in Android.
11. What is SharedPreferences used for?
12. How do you load a URL in a WebView?
13. Define the purpose of a Content Provider.
14. What is the use of the Action Bar?
15. Write any two differences between ListView and RecyclerView.
16. What is the use of the Manifest file?
17. Define Logcat.
18. What is an APK file?
19. What are pickers in Android?
20. Mention any two functions of the Android Emulator.

Part-B (10 Marks Each, Attempt Any 5, Minimum One from Each Unit)

(Answer in ~400 words)

Unit I: Mobile App Basics, IDE, and Publishing

1. Explain the mobile app development lifecycle with a neat diagram.
2. Compare native, hybrid, and web apps. Give their advantages and disadvantages.
3. Describe the architecture of an Android application. What are its major components?
4. Discuss the steps to build, run, debug, and publish your first Android app using Android Studio.
5. What are the key differences in Android versions from Lollipop to Android 12?

Unit II: Activities, Intents, UI Components, Orientation

6. Explain the Android Activity lifecycle with a suitable diagram.
7. Differentiate between explicit and implicit intents with code examples.
8. What are Fragments in Android? Describe their lifecycle and advantages.
9. How do you adapt the user interface for different screen orientations in Android?
10. What is the Action Bar? How is it customized and used in Android applications?

Unit III: Views, Storage, Content Providers, and Location

11. Explain the use of basic views (TextView, EditText, Button, ImageView) with example layout code.
12. What are ListViews and how are they used to display long lists of data? Explain with code.
13. Write short notes on: (a) Picker Views (b) Menus (c) WebView
14. Discuss different ways of saving and loading data in Android: SharedPreferences, Files, and SQLite.
15. What is a Content Provider? How do you create and use one in Android?

Unit IV: Messaging, Location, and Services

16. Explain the steps to send an SMS and an Email from your Android app.
17. Describe how to use Google Maps in Android. How do you display a user's current location?
18. What are the permissions required to access location and messages? How are they implemented in the Manifest?
19. Explain how to monitor location changes in Android. What are the key classes involved?
20. Describe the difference between synchronous and asynchronous tasks in Android with respect to

