**Interview Questions for Android**

**Android**

1. What is a View?
2. Different types of Views in Android?
3. What is a Layout and different types of layouts? Explain the usage and difference between each layout?
4. What is the Advantage of Constraint Layout? (Better performance since all the views will be at same level)
5. What is a DataBinding
6. What is a View Binding
7. How to create a Custom View? When is it better to have a custom view?
8. What is a Recycler view? How does RecyclerView work?
9. What is the use of ViewHolder in RecyclerView
10. What is an Application class
11. Explain Android Framework
12. What is an Activity, and explain its life cycle
13. what is a fragment, and explain its life cycle
14. How does the fragment and Activity life cycle tied and work together
15. How to transfer data between activities. (Intent)
16. How to transfer data between fragments (Bundle, SharedViewModel)
17. What is an Intent? what are different types of Intents? Explain.
18. What is a Service? How many different types of Services available? (Service, Intent Service, JobIntent Service)
19. Explain the usage of each type of Service. when do we usually use services?
20. Is Service run on Main or Background thread(Service — Main Thread, IntentService and JobIntentService — Background thread)
21. What is a Broadcast Receiver? Different type of Broadcast receivers? Explain. (Local Broadcast receiver and System level)
22. How to pass data from Background Service to UI? (Can use Broadcast receivers)
23. What is a WorkManager? When can we use it?
24. What is a Job Scheduler?
25. What is a Handler?
26. What is a Thread?
27. What is a Looper?

**Kotlin**

1. What is the difference between “val” and “var”
2. What is a Sealed class?
3. What is the difference between Sealed class and Enum?
4. What are the advantages of using Kotlin.
5. What is Smart casting in Kotlin
6. What are higher order functions in kotlin
7. What is an Extension function
8. What is a lambda function
9. What are different types of scope functions in kotlin?
10. Explain each scope function and when do you use it? (Let, Run, With, Apply, Also)
11. What are default arguments?
12. How to main an argument to a function or class constructor as optional?
13. What is a Data class? What is the advantage of data class?
14. Does Data class provide any default functionality? If yes, what are those?
15. What is a Companion Object
16. How to create a Singleton class in Kotlin
17. Map, find, filter