Android Basic Interview Question

1. What are the components in android?
2. Activity Lifecyle
3. What is service and types of services?
4. Service runs on which thread?
5. What is Intent Service on which thread it runs?
6. Difference between JonIntentService & JobService?
7. Explain MVVM architecture?
8. What is Viewmodel and how it handles configuration change?
9. Difference between Observable Pattern & ViewModel?
10. How Viewmodel prevents memory leaks?
11. What is Fragment?
12. What are the various by which two fragment can communicate?
13. What is Share ViewModel?
14. What is Content provider and How it works?
15. What is AIDL & how we can implement AIDL.

Java Basic Questions

1. Difference between Serializable & Parecellable?
2. How parcellable faster than Serializable?

Kotlin Basic Question

1. What is inline function and how inline function avoid memory overhead?
2. What is scope function in Kotlin?
3. Difference between let and apply?
4. Build process in Kotlin?
5. What is Coroutine in android and How it works behind the scene?
6. What is suspend function?
7. Difference between runBlocking and suspend?
8. Difference between data class and regular class in kotlin?
9. What is the difference between sealed class and enum?
10. What is delegate and how it is different from inheritance?
11. How many types of scope in coroutine?
12. How can we create a coroutine?
13. Who is bounded enum or sealed class?
14. Which is faster in terms of performance inline or higher order function and no-inline?

Android Advance Question

1. What is executor & execuote service in Android?
2. What is message queue, looper and handler in Android?
3. On which thread looper run?
4. If we assign a new task in message queue the in which order it will execute my task?
5. Difference between Fragment add and replace method?
6. Types of permission in Android?
7. What are dangerous permission?
8. What do you mean by life cycle aware components?
9. What are the various life cycle aware component?
10. How we can track fragment transactions?
11. Different ways to retain fragment state?
12. What is Flow in android and how it is different from observers?
13. What is Singleton in Android?
14. How to make a class singleton in multithread environment?
15. How apk compile in android?
16. What is buildType, BuildVariant and PoductFlavor in android?
17. How you can secure plain text(API KEY) while building and releasing the app?
18. What is proguard?
19. How we can identify Memory Leaks in Android
20. What is Leak Canary?

Java Advance Question

1. Building pillar in java?
2. Difference between interface and abstract class?
3. SOLID principle?
4. What is abstract factory design pattern?
5. Difference between StringBuffer and String Builder?
6. How String is immutable?
7. What is LinkedList in Java?
8. Difference between LinkedList and Arraylist?
9. In which scenarios we prefer LinkedList over Arraylist?
10. How to reverse a string without using inbuilt collection function?
11. How to find mid node in LinkedList when the size of LinkedList is unknown?