

## Unit 3

1. What is an AsyncTask? Explain the steps followed to execute an AsyncTask along with diagram of the calling order
2. Discuss the background processing in Android using AsyncTask and Loader frameworks with examples.
3. What is service? Explain service life cycle with call back methods. Also compare unbound service and bound service.
4. How to create broadcast receivers? Explain static and dynamic registration of broadcast receiver with example
5. Explain the steps to make a network call / to connect to internet in detail with example
6. What is notification? Give an example for creating and setting notification components.
7. Write a short note on notification priority describing the constants
8. List the types of Alarms and explain.
9. Explain elapsed real-time alarms and real-time clock alarms.
10. With a neat diagram indicate the comparison between the started and bound service lifecycles
11. What is a Job scheduler? Explain the components of Job scheduler
12. Explain the types of broadcast intents
13. What is a loader and how do you start a loader? Give an example
14. List the LoaderManager Callbacks and write their purpose. Explain any one of the LoaderManager Callbacks with Java code

## Unit 4

1. What is shared preference? Explain Creating, Saving, Restoring and Clearing the shared preference.
2. User created a Login form. Once the user enters their details, the data will not be removed by unknowingly closing the app. What trick he used in it and describe about it? (Shared Preferences)
3. Describe the design guidelines for the Settings UI
4. Discuss the differences between Internal and External storage
5. Write a code to check read and write permission of external storage
6. Discuss the conditions for automatic backup of Android 6.0 and higher
7. How to check whether external storage is mounted?
8. What is a transaction? Describe the properties of a transaction
9. Discuss the steps to implement a SQLite database with an example.
10. What is Content Provider? Explain the App Architecture with a Content Provider.
11. User created a loader that work with content providers and database. Suggest him a loader and help him how to implement it with an example.
12. Explain the steps required to implement cursorloader with examples.
13. Describe the method to build URIs to access Content provider's data
14. Discuss the general format of MIME type and its parts