MODULE1 : INTRODUCTION

1. Define Android? Explain Android Architecture with neat diagram?

2. List and Explain the challenges of Android app development?

3. Explain the Android app development process with neat diagram?

4. Explain the Android app build process ?

5. Explain with a neat diagram model-view-presenter pattern?

6. List and Explain different layout view group?

7. List the Android App Components? Explain Activity Component?

8. Define Intent? Explain different types of Intent?

9. Demonstrate with code snippet how to pass data between activities with Intent using Intent Extra?

10. Demonstrate with code snippet how to pass data between activities with Intent using Intent Data?

11. Demonstrate with code snippet how to get data back from activity (StartActivityForResult)?

12. Explain Activity Navigation?

13. Define Activity Life Cycle? Explain with neat diagram Activity Life Cycle?

14. Demonstrate the usage of Implicit Intent with Code Snippet?

15. Explain the process of Debugging?

16. Define Testing? Explain types of tests?

17. Write a test case for adding two numbers using JUnit 4?

18. Explain the features of The Android Support Library.

MODULE 2 : THE ANDROID STUDIO DEBUGGER

1. Define Input Control? Explain different types of Button and its states?

2. Explain button-listener design pattern with neat diagram?

3. List and Explain callback methods defined in the event listener interfaces to handle?

4. List the different input controls for making choices? Demonstrate with a code snippet   the usage of RadioButton?

5. Demonstrate with a code snippet the usage of Checkbox?

6. Demonstrate with a code snippet the usage of Switches?

7. Define Spinner? Demonstrate with a code snippet the usage of Spinner?

8. Define Dialog? Demonstrate with a code snippet the usage of Alert Dialog?

9. Define Pickers? Demonstrate with a code snippet the usage of Date Picker?

10. Define Menu? Explain different types of menus?

11. Define Touch Gesture? Explain how to detect common gestures?

12. Define App bar? Explain four different functional areas of App bar?

13. Demonstrate with code snippet to create options menu?

14. List and Explain app:showAsAction attribute values?

15. Define Contextual menu and Explain different types of Contextual menu?

16. Demonstrate with code snippet the usage of Floating context menu ?

17. Define Pop-up menu? Explain a process Creating a pop-up menu with neat diagram?

18. Explain different types of Hierarchical navigation patterns?

19. Define Recycler View? Demonstrate with a code snippet the usage of Recycler View?

20. Discuss Hierarchical navigation patterns.

21. Write the steps to implement a contextual action bar for an application.

22. Explain Navigation drawer and the steps to create them in any application.

MODULE 3 : WORKING IN THE BACKGROUND

1. Explain Android Thread Rules?

2. Demonstrate with a code snippet the usage of AsyncTask with connecting to Internet and downloading image?

3. Explain the need of Async Task and its call back methods?

4. Explain AsyncTask parameters with example?

5. Explain the Limitation of AsyncTask?

6. Define Loader? Explain the different call back method of LoaderManager class?

7. Explain the purpose of BroadCast Intent?

8. Explain the different types of BroadCast Intent?

9. Define BroadCast Receiver? Demonstrate the usage of BroadCast Receiver to respond to the broadcasted messages?

10. Explain the two ways of registering the Brodcast receiver?

11. Define Services? Explain types of Services?

12. With a neat diagram explain the life cycle of Services?

13. Differentiate between started service and bound service?

14. Write the steps to create broadcast receivers. Explain the static and dynamic registration of broadcast receivers with examples.

14. Define Notification? Explain the steps involved in creating and setting notification?

15. Explain the various optional components used with notification?

16. Define Alarams? Explain the characteristics of Alarams?

17. Explain the types of Alarams?

18. With a neat diagram explain the states of Wireless Radio?

19. Explain Prefeching with example?

20. Define Job Scheduler? Explain the different components of ob Scheduler?