

*UNIT 1*

- 1) Define Android and discuss the advantages of Android.
- 2) List and Explain various types of layouts in android.
- 3) State and Explain various stages of Activity Lifecycle.
- 4) Explain Architecture of android with a neat diagram.
- 5) Discuss following callback methods with respect to activity: (i) onCreate() (ii) onStart() (iii) onResume() (iv) onStop() (v) onDestroy()
- 6) List and Explain various components of Android.
- 7) Explain TextView with some important attributes.
- 8) What is the purpose of TextView? Explain the following attributes of TextView control (i) Id (ii) textColor (iii) text (iv) textStyle
- 9) How is the CheckBox different from Radiobutton? Write the XML tag for using CheckBox.
- 10) Write a note on following controls. Give suitable example. i. CheckBox ii. ToggleButton
- 11) Explain with suitable example the use of RadioButton and RadioGroup Views in android.
- 12) Explain the use of following controls : (i) AutoCompleteTextView (ii) Spinner
- 13) Write an Android application to implement DatePicker.
- 14) What is a spinner? Explain with example.

*UNIT 2*

- 15) Explain Button with Example.
- 16) Write a short note on EditText.
- 17) Write a note on Drawable in android.
- 18) Define Screen Navigation. Explain types of Navigation.
- 19) How to perform back navigation in android? Give one example.
- 20) Explain AsyncTask and AsyncTaskloader.
- 21) Explain the Components of RecyclerView.
- 22) Write a short note on Transferring data efficiently.
- 23) Explain Broadcast Receivers with suitable example.
- 24) How to create notifications in Android.
- 25) Briefly explain Alarm Managers.
- 26) Write a short note on ProgressBarView in android application
- 27) How to define Custom Services in Android? Explain Starting and Stopping a service.
- 28) Explain Menus in Android. How to define a Menu in XML?
- 29) What do you mean by material design in android? Explain the concept in detail.

*UNIT 3*

- 30) Write a short note on Shared Preferences.
- 31) Write a note on using SQLite databases for developing android applications.
- 32) State and Explain various features of SQLite database.
- 33) Explain ACID properties of transaction.
- 34) List and Explain various methods of Content Provider.
- 35) What is a Content Provider? How does it work?
- 36) What are loaders in android? What are its characteristics?
- 37) What are permissions in android? Write the relevant code to give permissions to access camera and contacts to the applications.
- 38) Identify and list key performance related recommendations for an android application development.
- 39) What is Firebase? List various features of the same.
- 40) What is AdMob? Explain in detail.
- 41) Discuss the Google provided tools for advertisers the AdMob with respect to following points: Concept, features and implementation.
- 42) Develop an android application to print toast message like in the example using DatePicker and TimePicker. Example: Hi! Your cab booking is done as per your request 3 June 2018 at 9AM". (Write only Java code).
- 43) Write the code for accepting user name and password from the user.
- 44) Write XML code for the following GUI.  
Name : [EditText] (Use textview for Name)  
Password : [EditText] (Use textview for Password)  
Buttons : Submit and Cancel.