

Uka Tarsadia University (Diwaliba Polytechnic)
Diploma in Information Technology
Objective Type Questions (Android Application Development-020070601)

Unit 1: Introduction to Android

Listing the version history of Android platform, Android APIs, Android architecture application framework, Features of Android, Android applications, Android developer tools, Android SDK, XML naming scheme: Tag and parameter repository, Anatomy of Android application: AndroidManifest.xml, R.java and Gradle

1. Who is the founder of Android?
 - a) Divyank Turakhia
 - b) Andy Rubin
 - c) Dennis Ritchie
 - d) Guido van Rossum
2. Which company bought android?
 - a) Nokia
 - b) Google
 - c) Apple
 - d) None
3. The underlying operating system for android is
 - a) Linux
 - b) Windows
 - c) Contiki
 - d) Mac OS
4. Which programming language is used for android application?
 - a) NodeJS
 - b) PHP
 - c) Java
 - d) JSX
5. Which of the following is the code name assigned to Android 4.0?
 - a) Froyo
 - b) Gingerbread
 - c) Honeycomb
 - d) Ice cream sandwich
6. Which of the following is the code name assigned to Android 9.0?
 - a) Marshmallow
 - b) Nougat
 - c) Oreo
 - d) Pie
7. Which of the following API level is used for Donut?
 - a) 1

- b) 3
- c) 4
- d) 2

8. Which of the following android versions use API level 14?
- a) 2.2
 - b) 4.0
 - c) 3.1
 - d) 1.6
9. What is the full form of API?
- a) Application Platform Interface
 - b) Android Platform Interface
 - c) Application Programming Interface
 - d) Android Programming Interface
10. Which of the following is the lowest layer in android architecture?
- a) Linux kernel
 - b) Application framework
 - c) Android runtime
 - d) Libraries
11. In android architecture linux kernel layer contains
- a) Display driver
 - b) Power management
 - c) Keypad driver
 - d) All of above
12. Which of the following is an inbuilt database engine used in android?
- a) SQLite
 - b) MySQL
 - c) Oracle
 - d) SQL Server
13. Which of the following library is used for 2D graphics in android?
- a) SSL
 - b) Libc
 - c) SGL
 - d) Open GL
14. In the Android architecture, SSL is used for
- a) 2D graphics
 - b) 3D graphics
 - c) Security
 - d) None
15. What is the use of the FreeType library in Android architecture?
- a) Audio video recording
 - b) Font support
 - c) Database support

d) Security

16. Which of the following is not included in application framework of the Android architecture?
- a) Activity manager
 - b) Content provider
 - c) View System
 - d) WiFi driver
17. Which of the following blocks of application framework provides data sharing between the applications?
- a) Activity manager
 - b) Content provider
 - c) Telephony manager
 - d) Location manager
18. The main and very first screen of the application is known as
- a) New Activity
 - b) Main Activity
 - c) First Activity
 - d) None
19. Which of the following android development tool is used for android text and code editor?
- a) Cordova
 - b) Corona
 - c) Droid Edit
 - d) Titanium
20. Which is the android development tool is used to create 3D games?
- a) Unreal engine
 - b) Unity 3D
 - c) Both
 - d) None
21. Android SDK helps for
- a) Building application
 - b) Testing application
 - c) Debugging application
 - d) All of above
22. In which directory XML Layout files are stored?
- a) /assets
 - b) /src
 - c) /res/values
 - d) /res/layout
23. In the androidmanifest.xml file, which component contains the minimum and maximum version of the android application platform?
- a) <application>

- b) <uses-sdk>
 - c) <actiivity>
 - d) <action>
24. Which file specifies the minimum required Android SDK version your application supports?
- a) main.xml
 - b) R.java
 - c) strings.xml
 - d) AndroidManifest.xml
25. Which is the auto generated file by an android assets packaging tool that contains resource IDs for all the resources of the directory?
- a) R.java
 - b) Gradle file
 - c) Resource xml file
 - d) Manifest file
26. Android is not actually owned by Google. Who owns the Android platform?
- a) Oracle Technology
 - b) Dalvik
 - c) Open Handset Alliance
 - d) Android is owned by Google
27. The required java environment for development is called _____.
- a) JDK
 - b) DEX
 - c) DVM
 - d) API
28. When did Google purchase Android?
- a) 2007
 - b) 2005
 - c) 2008
 - d) 2010
29. Which of the following is the code name assigned to Android 7.0?
- a) Nougat
 - b) Marshmallow
 - c) Froyo
 - d) Oreo
30. Which of the following API level is used for Kitkat?
- a) 17
 - b) 18
 - c) 19
 - d) 23
31. Which of the following API level is used for Pie?

- a) 26
 - b) 28
 - c) 23
 - d) 27
32. Which of the following android versions use API level 21?
- a) 4.0
 - b) 5.0
 - c) 7.0
 - d) 6.0
33. What is an interface in android?
- a) Interface is a class.
 - b) Interface acts as a bridge between class and the outside world.
 - c) Interface is a layout file
 - d) All of the above
34. Which of the following layer is not included in android architecture?
- a) Linux kernel
 - b) Application framework
 - c) Libraries
 - d) None of these
35. Which of the following library is responsible for browser support in android architecture?
- a) FreeType
 - b) Media
 - c) WebKit
 - d) SSL
36. Which of the following library is used for 3D graphics in android?
- a) SSL
 - b) Libc
 - c) SGL
 - d) Open GL
37. Which of the following is not included in Libraries in the Android architecture?
- a) FreeType
 - b) libc
 - c) View System
 - d) WebKit
38. Which of the following is the features of an android?
- a) It is world class platform for creating android app
 - b) Open source
 - c) 1.5 billion applications are downloaded on android
 - d) All of above

39. Which of the following is component of application in the android?
- a) Activity
 - b) Home
 - c) App
 - d) Phone
40. Which of the following is the android application components?
- a) Content provider
 - b) Broadcast receiver
 - c) Both
 - d) None
41. An application component in the working process that does not use UI is called a _____.
- a) Activity
 - b) Content provider
 - c) A and B both
 - d) Services
42. What is the use of content provider in android?
- a) To send the data from an application to another application
 - b) To store the data in a database
 - c) To share the data between applications
 - d) None of the above
43. Which of the following android development tool is used for android text and code editor?
- a) Cordova
 - b) Corona
 - c) Droid Edit
 - d) Titanium
44. Which is the android development tool is used to create 2D games?
- a) Unreal engine
 - b) GameMake
 - c) Unity 3D
 - d) Corona
45. Which of the following is not included in Android SDK?
- a) Debugger
 - b) An emulator
 - c) An activity
 - d) Sample source code
46. Which is the main element in whole structure of the manifest file is enclosed?
- a) <uses-sdk>
 - b) <intent-filter>

- c) <manifest>
- d) <action>

47. In Androidmanifest.xml file, <uses-sdk> element contains

- a) Min sdk version
- b) Max sdk version
- c) Both A and B
- d) None

48. In Androidmanifest.xml file, which component contains the declaration of the components and attributes?

- a) <uses-sdk>
- b) <application>
- c) <manifest>
- d) <action>

49. The task of androidmanifest.xml file is

- a) Providing the permissions
- b) Declared the android API
- c) Both
- d) None

50. In android studio, the tab in which error is shown is called

- a) Logcat
- b) Memory
- c) CPU
- d) ADB logs

51. Which of the following(s) is/are the part of Android native library?

1)webkit 2)OpenGL 3)SQLite 4)openUX 5)Dalvik

- a) 1,2,3
- b) 3,4,5
- c) All of the above
- d) None of these

52. Which of the following(s) is/are the nicknames of version(s) of Android?

1)cupcake 2)muffin 3)honeycomb 4)gingerbread

- a) 1,2,3
- b) 2,3,4
- c) 1,3,4
- d) 1,2,4

53. What is Android?

- a) mobile operating system
- b) windows operating system
- c) programming language

d) application software

54. Android is an open source mobile operating system.

True

False

55. Oreo is the code name assigned to Android 7.0

True

False

56. SGL graphic library is used for 2D graphics.

True

False

57. _____ provides data sharing between applications.

a) Resource manager

b) Location manager

c) Content provider

d) Telephony manager

58. _____ manifest element contains declaration of the components and attributes in android?

a) <uses-sdk>

b) <activity>

c) <application>

d) <action>

59. R.java file is an auto generated file.

True

False

60. Which of the following is the API level of Froyo version?

a) 5

b) 8

c) 7

d) 9

Unit 2: Using activities, Fragments and Intents in Android

Working with activities, Creating an Activity, Managing the life cycle of an activity, Exploring intent object, Implicit intent, Explicit intent, fragment life-cycle, Fragment implementation, Interaction between fragments

1. Choose the correct option regarding activity in android.
 - a) An activity is a window that contains the user interface of your application
 - b) An application can have zero or more activities
 - c) An application can have only one activity
 - d) Option A and B are correct.
2. What is the main purpose of an activity?
 - a) Interaction with user
 - b) Send messages
 - c) Data sharing
 - d) Pop up notification
3. Activity lifecycle has _____ methods.
 - a) 5
 - b) 6
 - c) 7
 - d) 8
4. Which method is called when the activity becomes visible to the user?
 - a) onCreate()
 - b) onStart()
 - c) onPause()
 - d) None of the above
5. Which of the following describes an android activity life cycle?
 - a) onCreate() -> onStart() -> onActivityCreated() -> onResume() -> onPause() -> onStop() -> onActivityDistroy() -> onDestroy()
 - b) OnCreate() -> onStart() -> onResume() -> onPause() -> onStop() -> onRestart() -> onDestroy()
 - c) OnCreate() -> onStart() -> onPause() -> onResume() -> onStop() -> onDestroy()
 - d) onResume()
6. During an Activity life-cycle, what is the first callback method invoked by the system?
 - a) onStop()
 - b) onStart()
 - c) onCreate()
 - d) onRestore()
7. How to kill an activity in android?
 - a) finish()
 - b) kill()
 - c) both
 - d) none of these
8. Which method is invoked when the activity starts interacting with the user?

- a) onStop()
- b) onStart()
- c) onResume()
- d) onDestroy()

9. Which method is invoked when an activity has been stopped and is being started again?

- a) onRestart()
- b) onStart()
- c) onCreate()
- d) None of these

10. Which of the following is correct?

- a)

```
Protected void onStart() {  
    super.onStart();  
    Log.d("lifecycle","onStart invoked")  
}
```
- b)

```
Protected void onStart() {  
    onStart();  
    Log.d("lifecycle","onStart invoked")  
}
```
- c)

```
Protected void onStart() {  
    onStart();  
    Log.e("lifecycle","onStart invoked")  
}
```
- d) None of the above

11. If you want to navigate from one activity to another then android provides you which class?

- a) Object
- b) start Activity
- c) Intent
- d) None of the above

12. Suppose that there are two activities in an application named ActivityOne and ActivityTwo. You want to invoke ActivityTwo from ActivityOne. What code you will write?

- a)

```
Intent intent=new Intent (this, ActivityTwo.class);  
startActivity(intent);
```
- b)

```
startActivity(new Intent(this, ActivityTwo.class));
```
- c) Option A and B are correct.
- d) None of the above.

13. putExtra() contains _____

- a) values and type
- b) values and number
- c) name and value
- d) none

14. How will you get the data in secondActivity?

- a) `Intent intent=new Intent;`
`String str= intent.getStringExtra("name");`
 - b) `Intent intent=getIntent();`
`String str= intent.getStringExtra("name");`
 - c) `Intent intent=getIntent();`
`String str= intent.getText("name");`
 - d) None of the above.
15. Android intents are mainly used to
- a) Launch an activity
 - b) Display a web page
 - c) Broadcast a message
 - d) All of the above
16. What is a fragment in android?
- a) JSON
 - b) Layout
 - c) Piece of Activity
 - d) None of the above
17. For creating Fragments the java class needs to extend which base class?
- a) `MainActivity`
 - b) `Fragment`
 - c) `MiniActivity`
 - d) None of the above
18. A single activity can contains multiple fragment/s.
- True
- False
19. Which method of fragment is invoked, after the fragment is associated with an activity?
- a) `onAttach()`
 - b) `onCreateView()`
 - c) `onStart()`
 - d) `onCreate()`
20. Which method informs the fragment that activity has been created?
- a) `onCreate()`
 - b) `onActivityCreated()`
 - c) `on CreateView()`
 - d) `onStart()`
21. Which of the following fragment life-cycle method is called once the fragment is no longer visible to user?
- a) `onPause()`
 - b) `onStop()`
 - c) `onDestroy()`
 - d) `onDetach()`
22. After calling _____ method, fragment view will be destroy.

- a) onAttach()
- b) onDestroyView()
- c) onDestroy()
- d) onDetach()

23. The method that is used to produce a log message in android is

- a) Log.D()
- b) Log.d()
- c) Log.e()
- d) Log.R()

24. Which of the following is/are true?

- a) A fragment has its own layout and its own behaviour with its own life cycle callbacks.
- b) We can add or remove fragments in an activity while the activity is running.
- c) We can combine multiple fragments in a single activity to build a multi-pane UI.
- d) All of the above

25. If Fragment and activity is running and activity is destroyed, what is the effect on the fragment?

- a) Fragment is destroyed
- b) Fragment runs as it is
- c) Fragment goes in idle state
- d) none of these

26. Which of the following is not an activity class methods?

- a) onCreate()
- b) onStart()
- c) onRecreate()
- d) onDestroy()

27. Which of the following is not an Activity lifecycle call-back method?

- a) onStart()
- b) onCreate()
- c) onPause()
- d) onBackPressed()

28. Which of the following Activity life-cycle method is called once the activity is no longer visible?

- a) onPause()
- b) onStop()
- c) onDestroy()
- d) onHide()

29. The main and very first screen of the application is known as

- a) New Activity
- b) Main Activity
- c) First Activity
- d) None of these

30. When the current activity is being paused and the previous activity is being resumed, which callback method is called?
- a) onResume()
 - b) onPause()
 - c) Both a and b
 - d) None
31. Before the activity is destroyed by the system, which callback method is called?
- a) onStop()
 - b) onRestart()
 - c) onHide()
 - d) onDestroy()
32. The types of intents in android is\are
- a) Explicit intents
 - b) Implicit intents
 - c) Start intents
 - d) a and b both
33. Which of the following lines of code starts activity Activity2 from a current activity Activity1?
- a) `Intent intent = new Intent(this, new Activity2());`
`startActivity(intent);`
 - b) `Intent intent = new Intent(new Activity2());`
`startActivity(intent);`
 - c) `Intent intent = new Intent (Main, Activity2.class);`
`startActivity(intent);`
 - d) `Intent intent = new Intent(this,Activity2.class);`
`startActivity(intent);`
34. Suppose that there are two activities in an application named FirstActivity and SecondActivity. You want to send a website name from ActivityOne to ActivityTwo. What code you will write? Suppose that the website name is www.google.com
- a) `Intent intent=new Intent (this, SecondActivity.class);`
`intent.putExtra("name", "www.google.com");`
`startActivity(intent);`
 - b) `Intent intent=new Intent (this, SecondActivity.class);`
`intent.putExtra("www.google.com");`
`startActivity(intent);`
 - c) `Intent intent=new Intent ();`
`intent.putExtra("name", "www.google.com");`
`startActivity(intent);`
 - d) None of the above

35. Which type of intent provides information of provided by the system that is to be invoked?
- a) Implicit intent
 - b) Explicit intent
 - c) Both a and b
 - d) None of these
36. Which type of intent provides information of provides the external class to be invoked?
- a) Implicit intent
 - b) Explicit intent
 - c) Both a and b
 - d) None of the above
37. The types of the fragment in android is/are?
- a) Static fragment
 - b) Dynamic fragment
 - c) Both a and b
 - d) None
38. A fragment can be used in multiple activities.
True
False
39. Fragment lifecycle has _____ methods.
- a) 12
 - b) 11
 - c) 8
 - d) 10
40. Which of the following describe an android fragment life cycle?
- a) onCreate() -> onStart() -> onFragmentStarted() -> onResume() -> onPause() -> onStop() -> onFragmentDistroy() -> onDestroy()
 - b) onAttach->onCreate -> onCreateView -> onActivityCreated -> onStart -> onResume
 - c) OnCreate() -> onStart() -> onPause() -> onResume() -> onStop() -> onDestroy()
 - d) None of the above
41. Which of the following method is called when creating the fragment?
- a) onAttach()
 - b) onCreateView()
 - c) onStart()
 - d) onCreate()
42. Which of the following method creates and returns the view associated with the created fragment?
- a) onCreate()
 - b) onActivityCreated()

- c) onCreateView()
 - d) onStart()
43. Which method is called when a fragment is visible to the user?
- a) onStart()
 - b) onCreate()
 - c) onAttach()
 - d) onDetach()
44. When fragment interacting with user, which method is called before?
- a) onStart()
 - b) onResume()
 - c) onPause()
 - d) None of the above
45. Which of the following method is called when fragment is no longer associated with its activity?
- a) onAttach()
 - b) onDestroyView()
 - c) onDestroy()
 - d) onDetach()
46. Which of the following is not a fragment class methods?
- a) onAttach()
 - b) onActivityCreated()
 - c) onDestroyView()
 - d) None of the above
47. In android studio, the tab in which error is shown is called
- a) Logcat
 - b) Memory
 - c) CPU
 - d) ADB logs
48. Which of the following is the wrong statement?
- a) The activity provides an interface for users to interact with the application and take action.
 - b) An application generally has multiple activities.
 - c) An activity has only one fragment.
 - d) None of these
49. In the android studio, the callback that is called when the activity restarts after being stopped is
- a) onStop()
 - b) onDestroy()
 - c) onRestart()
 - d) onResume()

50. Which of the following is used to bind activities?
- a) Intents
 - b) Manifest
 - c) Layouts
 - d) Settings
51. Intent is used to bind activities.
- True
False
52. Log.R() method that is used to produce a log message in android.
- True
False
53. A _____ is a piece of an activity which enable more modular activity design.
- a) Sub-activity
 - b) Intents
 - c) Fragment
 - d) Filters
54. What is true about Fragments?
- a) A fragment has its own layout and its own behaviour with its own life cycle callbacks.
 - b) You can add or remove fragments in an activity while the activity is running.
 - c) You can combine multiple fragments in a single activity to build a multi-pane UI.
 - d) All of the above
55. Which method is called Fragment going to be stopped?
- a) onDestroyView()
 - b) onPause()
 - c) onResume()
 - d) onStop()
56. Which method Fragment becomes active?
- a) onPause()
 - b) onResume()
 - c) onStart()
 - d) onCreate()
57. Fragments having special list view is called as?
- a) list fragment
 - b) view fragment
 - c) frame fragment
 - d) special fragment
58. An Android _____ is an abstract description of an operation to be performed. It can be used with startActivity to launch an Activity.
- a) Filters
 - b) Intent
 - c) Service.
 - d) Broadcast Receiver

59. Which method is used to launch a new activity or get an existing activity to do something new?
- a) Context.startActivity()
 - b) Context.startService()
 - c) Context.sendBroadcast()
 - d) All of the above
60. Which method is used to initiate a service or deliver new instructions to an ongoing service?
- a) Context.startActivity()
 - b) Context.startService()
 - c) Context.sendBroadcast()
 - d) None of the above
61. Which of the following action will display the phone dialer with the given number filled in?
- a) ACTION_VIEW tel:123
 - b) ACTION_SET_WALLPAPER
 - c) ACTION_DIAL tel:123
 - d) None of the above
62. The string can be set and read using the?
- a) setExtras() and getString() methods
 - b) puts String() and getsExtras() methods
 - c) setsExtras() and getStringExtras() methods
 - d) putString() and getStringExtras() methods
63. Android system initiates its program with in an Activity starting with a call on?
- a) onCreate() callback
 - b) onDrop() callback
 - c) onStart() callback
 - d) onResume() callback
64. In android mini-activities are also known as
- a) Adapter
 - b) Activity
 - c) Fragments
 - d) None of the above
65. The Log.d() method has been used to generate log messages.
- True
- False
66. An application can have one or more activities without any restrictions.
- True
- False
67. Which of the following is not an activity lifecycle callback method?
- a) onStop() method

- b) onCreate() method
- c) onStart() method
- d) onBackPressed() method

68. Which of the following is not a state in the fragment lifecycle?

- a) onAttach()
- b) onDestroyView()
- c) onRunning()
- d) onDetach()

69. In which state the activity is, if it is not in focus, but still visible on the screen?

- a) Stopped state
- b) Destroyed state
- c) Paused state
- d) Running state

70. Is it true that "There can be only one running activity at a given time"?

- True
- False

71. onStart() is called when an activity starts interacting with the user

- True
- False

72. Fragment can't exist independently.

- True
- False

73. What is a Fragment?

- a) A fragment is a part or portion of an activity
- b) A fragment is modular in a sense that you can move around or combine with other fragments in a single activity
- c) Fragments are also reusable
- d) All of these

74. How to pass data from activity?

- a) Using put() method
- b) Using putString() method
- c) Using getString() method
- d) None of these

75. How to pass the data between activities in Android?

- a) Intent
- b) Content Provider
- c) Broadcast receiver
- d) None of the Above

76. What is an activity in Android?

- a) Activity performs the actions on the screen
- b) Manage the Application content

- c) Screen UI
- d) None of the above

77. How will you get the data in secondActivity?

- a)

```
Intent intent=new Intent();
String str= intent.getStringExtra("name");
Toast.makeText(this, str , Toast.LENGTH_LONG).show();
```
- b)

```
Intent intent=getIntent();
String str= intent.getStringExtra("name");
Toast.makeText(this, str , Toast.LENGTH_LONG).show();
```
- c)

```
Intent intent=getIntent();
String str= intent.getText("name");
Toast.makeText(this, str , Toast.LENGTH_LONG).show();
```
- d) None of the above.

78. Which intent action is to be performed to deliver a message to the target specified by data?

- a) ACTION_CALL
- b) ACTION_DIAL
- c) ACTION_MESSAGE
- d) ACTION_SENDTO

79. Which intent action is to be performed to dial the number being specified by data?

- a) ACTION_ANSWER
- b) ACTION_DIAL
- c) ACTION_MESSAGE
- d) ACTION_SENDTO

80. Which intent action is to be performed to handle the incoming phone call?

- a) ACTION_ANSWER
- b) ACTION_PICKUP
- c) ACTION_HANDLE
- d) None of these

Unit 3: User interface

Layouts: Linear, Relative, Table, Frame, and Scroll-View, GUI elements : Text view, Edit text View, Button view, Radio button View, Check box view, Image, Button view, Toggle button view Rating bar view, Spinner, Progress bar

1. What is the android view group?
 - a) Collection of views and other child views
 - b) Base class of building blocks
 - c) Layouts
 - d) None of the Above
2. Which of the following is an android view?
 - a) EditText
 - b) Table layout
 - c) Both a and b
 - d) All of the above
3. Layouts in android?
 - a) Frame Layout
 - b) Linear Layout
 - c) Relative Layout
 - d) All of the above
4. The layout or design of an android application is saved in
 - a) .txt file
 - b) .dex file
 - c) .java file
 - d) .xml file
5. Which of the following is not a valid Android resource file name?
 - a) mylayout.xml
 - b) myLayout.xml
 - c) my_layout.xml
 - d) mylayout1.xml
6. What Activity method you use to retrieve a reference to an Android view by using the id attribute of a resource XML?
 - a) findViewByIdByReference(int id);
 - b) findViewByIdById(int id);
 - c) retrieveResourceById(int id);
 - d) findViewByIdById(String id);
7. _____ is a view group that aligns all children in a single direction, vertically or horizontally.
 - a) Relative layout
 - b) Linear layout
 - c) Table layout
 - d) Frame layout
8. Which of the following attributes allows you to right align a View in the relative layout?

- a) android:layout_alignParentRight
 - b) android:layout_alignRightOf
 - c) android:layout_alignRight
 - d) android:layout_rightalign
9. _____ is a view group that displays child views in relative positions.
- a) Relative layout
 - b) Linear layout
 - c) Table layout
 - d) Frame layout
10. Which layout is used to groups views into rows and columns?
- a) Relative layout
 - b) Linear layout
 - c) Table layout
 - d) Frame layout
11. Which of the following property is used to set the layout width?
- a) android:width
 - b) android:width_layout
 - c) android:layout_width
 - d) None of these
12. Which property is used to declare the extra space on the left side of View and ViewGroup elements?
- a) android:layout_marginLeft
 - b) android:layout_leftmargin
 - c) android:layout_left
 - d) android:layout_marginL
13. Which of the following property is mainly used in Linearlayout?
- a) android:layout_below
 - b) android:layout_ParentLeft
 - c) android:orientation
 - d) android:layout_toRightOf
14. What are the value/s is/are used for layout height and width?
- a) wrap_content
 - b) match_parent
 - c) fill_parent
 - d) All of the above
15. Which property is used for extra space from the top of the layout?
- a) android:Top
 - b) android:paddingTop
 - c) android:marginTop
 - d) android:Toppadding
16. For scrolling the content in mobile, which view group/s is/are used in android?
- a) Relative layout

- b) Frame layout
 - c) ScrollView layout
 - d) All of the above
17. What is the meaning of match_parent in android?
- a) match_parent tells your view to size itself to the dimensions required by its content.
 - b) match_parent tells your view to become as big as its parent view group will allow.
 - c) match_parent tells your view to size 50dp by default.
 - d) None of the above
18. If I want to set an image in the layout background then which attribute is used in android?
- a) android:src
 - b) android:image
 - c) android:background
 - d) android:orientation
19. What is the meaning of wrap_content in android?
- a) Wrap_content tells your view to size itself to the dimensions required by its content.
 - b) Wrap_content tells your view to become as big as its parent view group will allow.
 - c) Wrap_content tells your view to size 10dp by default.
 - d) None of the above
20. The click event is invoked by using which of the following method?
- a) setOnClickListener()
 - b) getOnClickListener()
 - c) setOnClick()
 - d) getOnClick()
21. Which of the following attributes allows you to arrange the content of an object corresponding to the specific x and y axes within the object?
- a) layout_marginRight
 - b) gravity
 - c) layout_x
 - d) layout_y
22. Which of the following XML attribute of the TextView element allows you to set the text?
- a) android:text
 - b) android:textSize
 - c) android:lines
 - d) None of the above
23. What code you will write to create an array in strings.xml file located in the res/values folder?
- a)

```
<string-array name="days">  
  <item>Sunday</item>  
  <item>Monday</item>  
  <item>Tuesday</item>  
</string-array>
```

- b) `<string name="days">`
`<item>Sunday</item>`
`<item>Monday</item>`
`<item>Tuesday</item>`
`</string>`
 - c) `string item[3];`
`<item>Sunday</item>`
`<item>Monday</item>`
`<item>Tuesday</item>`
 - d) None of the above.
24. Which element is a type of two state button either checked or unchecked?
- a) `<RatingBar>`
 - b) `<CheckBox>`
 - c) `<Button>`
 - d) Both b and c
25. Which of the XML attribute is not used in `<ToggleButton>`?
- a) `android:textOff`
 - b) `android:numstars`
 - c) `android:textOn`
 - d) `android:id`
26. Which of the following is used to display the status of work being done?
- a) Spinner
 - b) ProgressBar
 - c) RatingBar
 - d) TimePicker
27. To display the image, which element is used in android?
- a) `<Image>`
 - b) `<ImageView>`
 - c) `<Imageview>`
 - d) ``
28. Which of the following is wrong?
- a) `android:textColor="Blue"`
 - b) `android:Color="Red"`
 - c) `android:textColor="@color/colorAccent"`
 - d) None of these.
29. Which of the following is not the android viewgroup?
- a) Linear layout
 - b) Relative layout
 - c) TextView
 - d) Frame layout
30. Layout XML files are used to

- a) define the actual UI(User interface) of our application
 - b) holds all the elements(views) or the tools that we want to use in our application
 - c) both a and b
 - d) None of these
31. Which property is used to declare the extra space on the right side of View and ViewGroup elements.
- a) android:layout_marginR
 - b) android:layout_right
 - c) android:layout_marginRightOf
 - d) android:layout_marginRight
32. Which of the following is/are true?
- a) android:layout_width="match_parent"
 - b) android:layout_width="wrap_content"
 - c) android:layout_width="20dp"
 - d) All of the above
33. Which of the following property is specified for the x-coordinate of the layout?
- a) android:layout_x
 - b) android:x_layout
 - c) Both a and b
 - d) None of the above
34. Which of the following is/are true in the android layout?
- a) <LinearLayout>
 - b) <Linearlayout>
 - c) <linearlayout>
 - d) All of the above
35. Orientation attribute defines the direction
- a) Horizontal
 - b) Vertical
 - c) Top
 - d) Both a and b
36. Gravity attribute changes the alignment as
- a) Left
 - b) Right
 - c) Center
 - d) All of the above
37. Which element is used to display the text to the user?
- a) <Button>
 - b) <TextView>
 - c) <ImageButton>
 - d) Both a and b

38. _____ is a clickable Text or icon on a Widget.
- a) ImageView
 - b) Button
 - c) TextView
 - d) All of the above
39. Which of the following button is used to display On/Off state on the button?
- a) ImageButton
 - b) Button
 - c) ToggleButton
 - d) All of the above
40. A method that is used to handle what happens after clicking a button is
- a) onCreate
 - b) onSelect
 - c) onClick
 - d) onDo
41. To display text which control you will use?
- a) EditText
 - b) TextView
 - c) Label
 - d) None of the above
42. _____ and _____ are used to select a time and date respectively.
- a) <TimePicker>, <DatePicker>
 - b) <Datepicker>, <TimePicker>
 - c) <timepicker>, <datepicker>
 - d) All of the above
43. Which control works as a dropdownlist in Android?
- a) ComboBox
 - b) List
 - c) Spinner
 - d) None of the above.
44. Which element can be used to get the rating from the user?
- a) <RatingBar>
 - b) <ratingbar>
 - c) <Ratingbar>
 - d) <Rating>
45. Which element is used android:text property?
- a) <TextView>
 - b) <Button>
 - c) <RadioButton>
 - d) All of the above

46. Which of the following properties is used in EditText?
- a) android:entries
 - b) android:hint
 - c) android:src
 - d) android:checked
47. OnCheckedChangeListener can be used with which control?
- a) RadioButton
 - b) CheckBox
 - c) Option A and B are correct.
 - d) None of the above.
48. Which property is used to display the value in <Spinner> element?
- a) android:src
 - b) android:entry
 - c) android:entries
 - d) android:enter
49. Which is/are the file/s placed at the res/values folder by default?
- a) colors.xml
 - b) strings.xml
 - c) styles.xml
 - d) All of the above
50. Which of the following is true?
- a) <LinearLayout>
 - b) <textview>
 - c) <RatingBar>
 - d) <ScrollView>
51. Which of the following is/are true in android layout?
- a) <LinearLayout>
 - b) <Linearlayout>
 - c) <linearlayout>
 - d) All of the above
52. Gravity attribute changes the alignment as
- a) Left
 - b) Right
 - c) Center
 - d) All of the above
53. If I want to set image in layout background then which attribute is used?
- a) android:src
 - b) android:image
 - c) android:background

d) android:orientation

54. The grouping of one or more views is known as viewgroup in android.

True

False

55. Relative layout is a view in android.

True

False

56. Regular button and image button are the same in android.

True

False

57. Which of the following is the property of <RatingBar> element?

a) numstars

b) checked

c) textOff

d) None of these

58. Which of the following is/are the property of <TextView> element?

a) android:textOn

b) android:text

c) android:isChecked

d) all of these

59. Which of the following layout is used to display the single child view?

a) Linear

b) Relative

c) Table

d) Frame

60. Which of the following bears most resemblance with the button view?

a) Image Button

b) Radio Button

c) Toggle Button

d) CheckBox

61. Which of the following classes is used to insert and fetch the data in an android application?

a) ListView

b) Spinner

c) Gallery

d) AdapterView

62. Which of the following views displays the images horizontally as a scrolling list?

- a) Spinner View
- b) Gallery View
- c) List View
- d) None of these

63. Which of the following view has two states, either checked or unchecked?

- a) RadioButton
- b) RatingBar
- c) Button
- d) ToggleButton

Unit 4: Menus and Dialogs

Alert Dialog, Date Picker Dialog, Time Picker Dialog, Progress Dialog, Context menu, Option menu

1. A small window that may appear in front of activity in various form is called
 - a) Dialog
 - b) Box
 - c) Intent
 - d) Activity
2. Which of the following class is used to show a spinning wheel in an android application?
 - a) AlertDialog
 - b) ProgressDialog
 - c) DatePickerDialog
 - d) TimePickerDialog
3. If you wanted to ask the user about making a decision between yes or no in the response to any particular action taken by the user, then which of the following dialog class is used?
 - a) AlertDialog
 - b) ProgressDialog
 - c) DatePickerDialog
 - d) TimePickerDialog
4. If we have to set the positive (yes) button using the object of the AlertDialogBuilder class, then which of the following method is used?
 - a) setNegativeButton()
 - b) setPositiveButton()
 - c) Both a and b
 - d) None of these
5. Which method is used to set the icon of the alert dialog box?
 - a) seticon()
 - b) setTitle()
 - c) setIcon()
 - d) Seticon()
6. Which of the following is used to sets the message to be displayed in the alert dialog?
 - a) setttitle()
 - b) setTitle()
 - c) setMessage()
 - d) Setmessage()
7. Which of the following method is used to sets the callback that will be called if the dialog is cancelled?
 - a) setCancelable(boolean cancel able)
 - b) setOnCancelListener()
 - c) setcancelable(boolean cancel able)
 - d) setOnCancellistener()
8. Which method is used to set the title of the alert dialog box?

- a) setTitle()
 - b) settitle()
 - c) titleset()
 - d) None of these
9. Which of the following syntax is true?
- a) AlertDialog.Builder aldb = new AlertDialog.Builder(this);
 - b) AlertDialog.Builder alertdb = new AlertDialog.Builder(MainActivity.this);
 - c) Both a and b
 - d) None of these
10. Which dialog box is used to select the time?
- a) AlertDialog
 - b) ProgressDialog
 - c) DatePickerDialog
 - d) TimePickerDialog
11. Which dialog box is used to select the date?
- a) AlertDialog
 - b) ProgressDialog
 - c) DatePickerDialog
 - d) TimePickerDialog
12. Which XML element is used to create a DatePickerDialog?
- a) <Datepicker>
 - b) <DatePicker>
 - c) <datePicker>
 - d) All of the above
13. In android TimePicker, the time consists of
- a) hours, minutes
 - b) hours, minutes and second
 - c) hours
 - d) hours, minutes and clock format
14. Which callback function is invoked, when user sets the date?
- a) onDatesetListner()
 - b) onDate()
 - c) onsetDate()
 - d) onDateSet()
15. TimePickerDialog class have _____ callback method.
- a) onTimeSetListner()
 - b) onTimeSet()
 - c) Both a and b
 - d) onTimeset()
16. A _____ is used when we want to prevent the user from interacting with the application while waiting.
- a) AlertDialog

- b) ProgressDialog
 - c) DatePickerDialog
 - d) TimePickerDialog
17. Which method is used to show the horizontal progress bar in the dialog box?
- a) setProgressStyle(ProgressDialog.STYLE_HORIZONTAL)
 - b) setProgressStyle(ProgressDialog.STYLE_SPINNER)
 - c) getProgresshorizontal()
 - d) All of the above
18. Which of the following is true about the Dialog class?
- a) A dialog has a life-cycle independent of the Activity.
 - b) A dialog is displayed on the screen using method show().
 - c) It does not have a method to access the activity that owns it.
 - d) None of the above
19. Which method/s is/are provided by ProgressDialog class?
- a) setProgress()
 - b) setMessage()
 - c) setProgressStyle()
 - d) all of the above
20. Which of the following methods are used by AlertDialog class? 1) setIcon() 2) setTitle() 3)onDateSet() 4)onTimeSet()
- a) 1 and 2
 - b) 3 and 4
 - c) all of the above
 - d) none of these
21. To perform event handling on menu items, we need to override _____ method of Activity class.
- a) onCreateOptionsMenu()
 - b) onOptionsItemSelected()
 - c) onOptionsItemSelected()
 - d) onSelectedOption()
22. Which of the following is used, when user press long click on the element?
- a) Option menu
 - b) Context menu
 - c) Sub menu
 - d) None of these
23. Which of the following best explains the Android option menus?
- a) It is a popup menu that displays a list of items in a vertical list anchored to the view that invoked the menu.
 - b) It is a floating menu that appears when the user performs a long-click on an element. It provides actions that affect the selected content or context frame.
 - c) It is the primary collection of menu items for an activity where you should place actions that have a global impact on the app, such as "Search," "Compose email," and "Settings."

- d) It is a type of List Activity with predefined headers and footers for special commands.
24. Which of the following resource file is used to create menu items in android?
- a) string.xml
 - b) style.xml
 - c) menu.xml
 - d) value.xml
25. In which menu, the menu item that contains a nested menu?
- a) Context menu
 - b) Option menu
 - c) Sub menu
 - d) None of these
26. A dialog window with not a single button can be created by which of the following class?
- a) AlertDialog
 - b) ProgressDialog
 - c) DatePickerDialog
 - d) TimePickerDialog
27. A _____ is small window that prompts the user to a decision or enter additional information
- a) Intent
 - b) Dialog
 - c) Box
 - d) Picker
28. If we have to set the negative (no) button using the object of the AlertDialogBuilder class, then which of the following method is used?
- a) setNegativeButton()
 - b) setPositiveButton()
 - c) setNeutralButton()
 - d) None of these
29. Which of the following method sets the property that the dialog can be canceled or not?
- a) setCancelable(boolean cancel able)
 - b) setCancelable(boolean cancel disable)
 - c) setcancelable(boolean cancel able)
 - d) None of these
30. Which method is used to sets a list of items to be displayed in the dialog as the content?
- a) setmultiChoiceItems()
 - b) setMultichoiceitems()
 - c) both a and b
 - d) setMultiChoiceItems()
31. After creating and setting the dialog builder, we will create an alert dialog by calling the _____ method of the builder class.
- a) onCreate()
 - b) Start()

- c) create()
 - d) start()
32. Which XML element is used to create a TimePickerDialog?
- a) <Timepicker>
 - b) <timepicker>
 - c) <TimePicker>
 - d) All of the above
33. How many parameters or arguments are there in the TimePickerDialog class?
- a) 3
 - b) 5
 - c) 4
 - d) 2
34. How many parameters or arguments are there in the DatePickerDialog class?
- a) 3
 - b) 5
 - c) 4
 - d) 2
35. Which callback function is invoked, when user sets the time?
- a) onTimesetListner()
 - b) onTime()
 - c) onSetTime()
 - d) onTimeSet()
36. DatePickerDialog class have _____ callback method.
- a) onDateSetListener()
 - b) onDateSet()
 - c) Both a and b
 - d) onDateset()
37. How many arguments are there in onDateSet() function?
- a) 2
 - b) 3
 - c) 1
 - d) 4
38. How many arguments are there in onTimeSet() function?
- a) 4
 - b) 3
 - c) 1
 - d) 2
39. Which of the following is not the parameter of the onTimeSet() function?
- a) int hourOfDay
 - b) int minute
 - c) int second
 - d) None of these

40. Which of the following is a view (XML element) of an android?
- a) <ProgressDialog>
 - b) <ProgressBar>
 - c) Both a and b
 - d) None of these
41. Which method is used to show the circle/spinning progress bar in the dialog box?
- a) setProgressStyle(ProgressDialog.STYLE_SPIN)
 - b) setProgressStyle(ProgressDialog.STYLE_SPINNER)
 - c) getProgresscircle()
 - d) All of the above
42. Which of the following is not a dialog box of an android?
- a) TimePickerDialog
 - b) ProgressBar
 - c) AlertDialog()
 - d) DatePickerDialog()
43. Which of the following Dialog boxes are supported by Android? 1) AlertDialog 2) ProgressDialog 3) DatePickerDialog 4) TimePickerDialog
- a) 1 and 2
 - b) 3 and 4
 - c) all of the above
 - d) none of these
44. _____ and _____ method is used to set the positive (yes) and negative (no) button using the object of the AlertDialogBuilder class in android respectively.
- a) setNegativeButton(), setPositiveButton()
 - b) setPositiveButton(), setNeutralButton()
 - c) setPositiveButton(), setNegativeButton()
 - d) setPositive, setNegative()
45. Which methods are used to set the alertdialog box title and icon respectively?
- a) setTitle(), setIcon()
 - b) setIcon(), setTitle()
 - c) setMessage(), setIcon()
 - d) settitle(), seticon()
46. What method you should override to use the android menu system?
- a) onCreateOptionsMenu()
 - b) onCreateMenu()
 - c) onMenuCreated()
 - d) None of these
47. For receiving an instance of Menu, we have to use
- a) setup()
 - b) setIndicator()
 - c) onCreate()

- d) onCreateOptionsMenu()
48. Which of the following best explains the Android context menus?
- a) It is a popup menu displays a list of items in a vertical list that's anchored to the view that invoked the menu.
 - b) It is a floating menu that appears when the user performs a long-click on an element. It provides actions that affect the selected content or context frame.
 - c) It is the primary collection of menu items for an activity. It's where you should place actions that have a global impact on the app, such as "Search," "Compose email," and "Settings."
 - d) It is a sub-menu of an options menu item.
49. Which of the following is not a menu in android?
- a) Context menu
 - b) Option menu
 - c) Sub menu
 - d) None of these
50. To perform event handling on context menu items, we need to override _____ method of Activity class.
- a) onCreateContextMenu()
 - b) onContextItemSelected()
 - c) onOptionsItemSelected()
 - d) onSelectedItems()
51. What types of menus is/are supported by Android?
- a) Option menu and Context menu
 - b) Only Option menu
 - c) Only Context menu
 - d) None of the above.
52. Android supports which dialog boxes
- a) Alert Dialog, Progress Dialog
 - b) DatePickerDialog
 - c) TimePickerDialog
 - d) All of these
53. A _____ is a menu that appears when a user selects an item from an existing menu.
- a) Context menu
 - b) Submenu
 - c) Option menu
 - d) All of these
54. Which method is used to display a dialog?
- a) create()
 - b) show()
 - c) notify()

d) None of these

55. show() method is used to display a dialog.

True

False

56. setIcon() method is used to set the icon of the alert dialog box.

True

False

57. setTitle() method is used to set the title of the alert dialog box.

True

False

58. setNegativeButton() method is used to set the negative button in alert dialog box.

True

False

59. To select the current year, month and day in DatePickerDialog box, which of the following class is used?

a) Calendar

b) DatePicker

c) onDateset

d) Year

60. Option menu is used, when user press long click on the element.

True

False

Unit 5: Android notifications

Introduction to notification, API, Toast notification, Status bar Notification, Dialog notification

1. A _____ is a message you can display to the user outside of your application's normal UI.
 - a) Dialog
 - b) Notification
 - c) Menu
 - d) None of these
2. In Android, you can raise notifications via _____.
 - a) Notification
 - b) NotificationManager
 - c) Note
 - d) Manager
3. The NotificationManager is a _____.
 - a) system service
 - b) user service
 - c) interactive service
 - d) none of these
4. Which of the following class is used in toast notification?
 - a) toast
 - b) Toast
 - c) ToastNotification
 - d) makeText
5. Which method is used in toast bar notification?
 - a) makeText()
 - b) text()
 - c) stringtext()
 - d) None of these
6. Which of the following is not the argument of Toast.makeText() method?
 - a) Context
 - b) Duration
 - c) Charsequence text
 - d) Margin
7. How many arguments are used in Toast.makeText() method?
 - a) 1
 - b) 2
 - c) 3
 - d) 4
8. Which constant is used to displays view for the long duration of time in toast notification?
 - a) Toast.LENGTH_SHORT
 - b) Toast.LENGTH_LONG

- c) Toast.LENGTH_FULL
- d) None of these

9. What is Toast class?

- a) The Toast class is used to display notifications on the device's status bar
- b) The Toast class is used to display notifications on the device's status bar and disappears after a few seconds
- c) The Toast class is used to display alerts to the user and disappears when user click on OK button
- d) The Toast class is used to display alerts to the user and disappears after a few seconds

10. What is NotificationManager class?

- a) The NotificationManager class is used to display notifications on the device's status bar and disappears after a few seconds
- b) The NotificationManager class is used to display alerts to the user and disappears when user click on OK button
- c) The NotificationManager class is used to display notifications on the device's status bar
- d) The NotificationManager class is used to display alerts to the user and disappears after a few seconds

11. The _____ notification adds an icon to the system statusbar and expanded message in the Notification window.

- a) Toast
- b) Statusbar
- c) Dialog
- d) None of these

12. How to display a Toast?

- a) Call .show() method
- b) Call .getText() method
- c) Call .display() method
- d) None of above

13. In Android, we can raise notifications via NotificationManager.

- True
- False

14. Which of the following is true for default vibration pattern of notification?

- a) Notification.DEFAULT_VIBRATE;
- b) Notification.DEFAULT_LIGHTS;
- c) Notification.DEFAULT_VIBRATION
- d) Notification.VIBRATE

15. A status bar notification requires

- a) An icon for the status bar
- b) A title and message
- c) A PendingIntent
- d) All of the above

16. The toast notification automatically fades in and out, and does not accept interaction events.
True
False
17. Which is the method you need to use to post a notification to be shown in the status bar?
a) notify(...)
b) show()
c) display()
d) none of these
18. Toast class provides a simple popup message that is displayed on the current activity UI screen.
True
False
19. Which of the following notification is used to alert the user with a sound, vibration and flashing light on the device?
a) Dialog notification
b) Toast notification
c) Statusbar notification
d) None of the above
20. Using Notification Builder's object, we can set _____ properties of Notification.
a) A small icon
b) A title
c) Detail text
d) All of these
21. To set a small icon of notification, which of the following is used?
a) setIcon()
b) setContentIcon()
c) setSmallIcon()
d) setText()
22. To display or remove a notification, you can use a _____ object.
a) Notification
b) NotificationManager
c) Note
d) Manager
23. Find the error from the below code.
Toast.makeText("Done",Toast.LENGTH_SHORT).show();
a) Context is missing
b) Message displayed with quote
c) Time duration is missing
d) All of the above
24. A type of service provided by android that shows messages and alerts to user is
a) Content providers

- b) View System
 - c) Notification Manager
 - d) Activity manager
25. Which of the following is/are correct?
- I. `Toast.makeText(getApplicationContext(), "Error", Toast.LENGTH_LONG).show();`
 - II. `Toast.makeText(getApplicationContext(), "Error occurred", Toast.LENGTH_SHORT).show();`
 - III. `Toast.makeText(MainActivity.this, "Done", Toast.LENGTH_LONG).show();`
 - IV. `Toast.makeText(getApplicationContext(), "Missing", Toast.LENGTH_SHORT).show();`
- a) I and II
 - b) I, II and III
 - c) All of the above
 - d) I only
26. Android `PendingIntent` is used to ending the session.
- True
False
27. `Toast.LENGTH_LONG` is used to displays view for the long duration of time in toast notification.
- True
False
28. API stands for
- a) Application Programming Interface
 - b) Application Platform Interface
 - c) Application Programming Intermediate
 - d) Application Platform Interface
29. Which of the following type(s) of notification is/are available in Android?
- 1) Toast notification 2) Status bar notification 3) Dialog notification 4) Alert notification
- a) 1,2,3
 - b) 2,3,4
 - c) 1,3,4
 - d) none of these
30. Which of the following is not a notification in android?
- a) Toast notification
 - b) Status bar notification
 - c) Dialog notification
 - d) Alert notification
31. _____ class is used to show notification for a particular interval of time.
- a) Toast
 - b) Status
 - c) `makeText()`
 - d) none of these

32. Which constant is used to displays view for the short duration of time in toast notification?
- a) Toast.LENGTH_SHORT
 - b) Toast.LENGTH_LONG
 - c) Toast.LENGTH_LESS
 - d) None of these
33. Which of the following is true for default notification sound?
- a) Notification.DEFAULT_SOUND;
 - b) Notification.SOUND;
 - c) Notification.DEFAULT_VIBRATE;
 - d) Notification.DEFAULT_LIGHTS;
34. To alert the user by flashing LED lights, which of the following is used in android?
- a) Notification.DEFAULT_LIGHTS;
 - b) Notification.DEFAULT_VIBRATE;
 - c) Notification.DEFAULT_LGT
 - d) None of the above
35. Optional settings for the status bar notification include:
- a) An alert sound
 - b) A vibrate setting
 - c) A flashing LED setting
 - d) All of these
36. What is android PendingIntent?
- a) Android PendingIntent is used to ending the session.
 - b) Android PendingIntent is an object that wraps up an intent object.
 - c) Both a and b
 - d) None of these
37. Which of the following is correct statement?
- a) public void show() method is used to disappear the toast message.
 - b) public void show() method is used to display the toast message.
 - c) public void show() method is used to set the time duration of message.
 - d) All of the above
38. Which objects are designed to allow an intent to be passed to other applications?
- a) Notification
 - b) PendingIntent
 - c) Intent
 - d) Notification manager
39. To set a title of notification, which of the following is used?
- a) setContentTitle()
 - b) setTitle()
 - c) setContentText()
 - d) None of these

40. To set a text of notification, which of the following is used?
- a) setContentTitle()
 - b) setContentText()
 - c) setText()
 - d) setContent()
41. The NotificationManager is a user service. True or False?
- True
False
42. Toast class is used to display the dialog notification. True or False?
- True
False
43. Toast is a class to display a message in Android. How to set position of a Toast
- a) Using setGravity()
 - b) Using setPosition()
 - c) Using setSpace()
 - d) None of the above
44. A _____ provides a way for a service to display a message even when another app is running.
- a) Notification
 - b) Dialog
 - c) Menu
 - d) All of the above
45. Assume you have the following constant value, a NotificationManager object named manager, and a Notification object named notification. Which of the following statements displays the notification?
- ```
final int NOTIFICATION_ID = 999;
```
- a) notification.notify(NOTIFICATION\_ID);
  - b) manager.notify(NOTIFICATION\_ID);
  - c) manager.notify(NOTIFICATION\_ID, notification);
  - d) notification.show(999);
46. A class that displays toast-shaped message for the user is
- a) Log class
  - b) makeText class
  - c) Show class
  - d) Toast class
47. The NotificationManager class is used to display notifications on the device's status bar.
- True  
False
48. A notification is a message you can display to the user inside of your application's normal UI.
- True

False

49. Which of the following method is used to set the cancelable property of notification?
- a) setAutoCancel()
  - b) Cancel()
  - c) setCancelable()
  - d) All of the above
50. How to create the notification builder in android?
- a) NotificationBuider builder = new NotificationBuider(this);
  - b) NotificationCompact.Buider builder = new NotificationBuider(this);
  - c) Notification builder = new NotificationBuider(this);
  - d) NotificationCompact.Buider builder = new NotificationCompact.Buider(this);
51. Which of the following are the dialog notification?
- a) Alert dialog
  - b) Timepicker dialog
  - c) Datepicker dialog
  - d) All of the above
52. Which of the following notifications would you use to configure sound alerts in an Android application?
- a) Toast Notification
  - b) Status Bar Notification
  - c) Dialog Notification
  - d) Sound Notification
53. Which method is used to display the message in the toast notification?
- a) Text()
  - b) makeText()
  - c) createText()
  - d) display()
54. How can you create the status bar notification?
- a) Using Notification class
  - b) Using NotificationManager class
  - c) Both Notification and NotificationManager class have to be used
  - d) Either of Notification or NotificationManager classes
55. Which of the following method is used to sets the priority of notification?
- a) setPriority()
  - b) priority()
  - c) Setpriority()
  - d) setpr()
56. setSmallIcon() is used to sets the icon of the notification.
- True
- False
57. Which of the following is/are included in the Toast notification?

- a) Application context
- b) Time duration
- c) Message to be displayed
- d) All of these

58. Which of the following method is not used in status bar notification?

- a) `setSmallIcon()`
- b) `setContentTitle()`
- c) `setTitle()`
- d) `setContentText()`

59. The status bar notification is used to display alerts to the user and disappears after a few seconds.

True  
False

60. The Toast class is used to display alerts to the user and disappears after a few seconds

True  
False

## **Unit 6: Storing the Data Persistently**

**Introducing the data storage options, Using the SQLite database, Creating the database helper class, Creating the layout and activity for the insert operation, Search operation, Update operation and Delete operation**

1. Which of the following is/are the data storage options available in Android?
  - a) Shared preference
  - b) Internal and External storage
  - c) SQLite database
  - d) All of the above
2. What is Shared Preferences in android?
  - a) It stores private primitive data in key-value pairs.
  - b) It stores private data on the device memory.
  - c) It stores public data on the shared external storage.
  - d) It stores structured data in a private database.
3. What is Internal storage in android?
  - a) It stores private primitive data in key-value pairs.
  - b) It stores private data on the device memory.
  - c) It stores public data on the shared external storage.
  - d) It stores structured data in a private database.
4. What is External storage in android?
  - a) It stores private primitive data in key-value pairs.
  - b) It stores private data on the device memory.
  - c) It stores public data on the shared external storage.
  - d) It stores structured data in a private database.
5. What is SQLite databases in android?
  - a) It stores private primitive data in key-value pairs.
  - b) It stores private data on the device memory.
  - c) It stores public data on the shared external storage.
  - d) It stores structured data in a private database.
6. Using Shared Preferences, you can store private primitive data only.  
True  
False
7. Which of the following data type is not supported by the Shared Preference class?
  - a) int
  - b) float
  - c) long
  - d) DateTime
8. Which method is used to cache the data rather than store the data persistently?
  - a) CacheDir()
  - b) getCache()
  - c) getCacheDir()
  - d) All of the above

9. In order to use internal storage to write some data in the file, which method will be used?  
This method returns `FileOutputStream`.
- a) `openFileInput()`
  - b) `openFileOutput()`
  - c) `openForWrite()`
  - d) None of the above.
10. Which type of storage is used if data is saved to an SD card?
- a) Shared preferences
  - b) External
  - c) Internal
  - d) Network connection
11. In Android, by default, SQLite database save data in?
- a) Memory
  - b) External Storage
  - c) Internal Storage
  - d) On the cloud
12. To check that whether the external media is available or not, which of the following method is used?
- a) `GetExternalStorageState()`
  - b) `ExternalStorageState()`
  - c) `getExternalStorageState()`
  - d) None of these
13. Which method is used to create the SQLite database?
- a) `SQLiteOpenHelper`
  - b) `SQLiteCreateDatabase`
  - c) `SQLiteOpenHelper`
  - d) None of these
14. Which method is used to override in SQLite to create table?
- a) `Open()`
  - b) `onCreate()`
  - c) `Create ()`
  - d) `create()`
15. Which of the following is used to write in the database?
- a) `getWritableDatabase()`
  - b) `WritableDatabase()`
  - c) `toWritableDatabase()`
  - d) None of the above
16. Network storage is also known as?
- a) Framework storage
  - b) Remote storage
  - c) Both a and b
  - d) None of these

17. No permission is necessary to work with the \_\_\_\_\_.  
a) External storage  
b) SQLite database  
c) Internal storage  
d) All of the above.
18. CRUD is known as?  
a) Create, Read, Update and Delete  
b) Call, Read, Undo and Develop  
c) Both a and b  
d) None of the above
19. Which of the following is correct statement for onUpgrade() method?  
a) The onUpgrade() method is used when we need to upgrade an futuristic database from other class  
b) The onUpgrade() method is used to upgrade the existing database  
c) The onUpgrade() method is used when we need to upgrade an existing database  
d) None of these
20. Which function/s is/are available in SQLiteDatabase class?  
a) insert()  
b) update()  
c) delete()  
d) All of these
21. To perform delete operation, we have to call \_\_\_\_\_ function is available in SQLiteDatabase class.  
a) insert()  
b) update()  
c) delete()  
d) remove()
22. To perform read operation, we have to call \_\_\_\_\_ function available in SQLiteDatabase class.  
a) insert()  
b) select()  
c) query()  
d) remove()
23. Every SQLite query will return a \_\_\_\_\_ that points to all the rows found by the query.  
a) Cursor  
b) Columns  
c) Row  
d) None of these
24. Which of these method can be used to view the user preferences in the context of the overall android framework?  
a) getPreferences()

- b) `getSharedPreferences()`
  - c) `getDefaultSharedPreferences()`
  - d) None of the above
25. Which of the following method can be used to view the Folders in the android application?
- a) `getDir()`
  - b) `getFiles()`
  - c) `getFolders()`
  - d) `getDirs()`
26. Which of the following is not the data storage option in android?
- a) Shared preference
  - b) Internal
  - c) External storage
  - d) The Activities
27. With Android, you have the option of storing persistent data only on the device's internal storage.
- True
- False
28. Using External storage, you can store private data on the memory.
- True
- False
29. Using Internal storage, you can store private data on the memory.
- True
- False
30. How does the Shared preferences option of storing persistent data store private data?
- a) shared external storage
  - b) key-value pairs
  - c) private database
  - d) public cloud
31. `getDir()` method
- a) Creates (or opens an existing) directory within your internal storage space.
  - b) Gets the absolute path to the filesystem directory where your internal files are saved.
  - c) Returns an array of files currently saved by your application.
  - d) None of these
32. `fileList()` method
- a) Returns an array of folders currently saved by your application.
  - b) Gets the absolute path to the filesystem directory where your internal files are saved.
  - c) Returns an array of files currently saved by your application.
  - d) None of these



33. There are five different methods to store persistent data. They are: Shared Preference, Internal Storage, External Storage, Network and ...?
- a) Core Data
  - b) SQLite Database
  - c) Web Service
  - d) None of the above
34. Which of these database is inbuilt in the Android operating system?
- a) SQL Server
  - b) SQLite
  - c) MySQL
  - d) MySQL Server
35. To read from the database, which of the following is used?
- a) GetReadableDatabase()
  - b) getReadableDatabase()
  - c) togetReadableDatabase()
  - d) None of the above
36. Which object is return by the Read and Write operations that represents the database?
- a) SQLiteDatabase
  - b) Database
  - c) SQLiteHelper
  - d) None of these
37. SQL stands for?
- a) Structured Query Language
  - b) Structure Query Language
  - c) Standard Query Language
  - d) Support Query Language
38. A(n) \_\_\_\_\_ stores persistent data on a web server.
- a) Network connection
  - b) External storage
  - c) Internal storage
  - d) None of these
39. What is the return type of the getExternalStorageState() method which can be used to check the state of the external device?
- a) int
  - b) bool
  - c) Long
  - d) String
40. A new set of method was introduced to handle the external files, is known as
- a) getExternalFilesDir()
  - b) ExternalFilesDir()

- c) `getExternalFiles()`
- d) `GetExternalFilesDir()`

41. When application is asking for permission on which file it is added?

- a) `AndroidManifest.sql`
- b) `SQLiteManifest.sql`
- c) `AndroidManifest.xml`
- d) None of these

42. State the use of below code

`android.permission.RECEIVE_BOOT_COMPLETED`

- a) to reboot the phone
- b) request the application to know when the phone is rebooted.
- c) allow the application to know when the phone reboots.
- d) none of these

43. State the use of below code

`android.permission.WAKE_LOCK`

- a) Check the status of phone locked
- b) allow the phone to keep the phone awake while its performing some background processing
- c) to lock the phone
- d) none of these

44. Which parameters are accepted by `insert ()` method?

- a) `String table`
- b) `String nullColumnHack`
- c) `ContentValues values`
- d) All of these

45. Which are the necessary steps for inserting the data in SQLite database?

- a) Set up the required local variables
- b) Build the save button click listener
- c) Retrieve the values, open and close the database
- d) All of these

46. `SQLiteDatabase` class provides \_\_\_\_\_ method to read data from table.

- a) `read()`
- b) `query()`
- c) `insert()`
- d) `select()`

47. The query operation is also known as?

- a) insert
- b) edit
- c) read
- d) none of the above

48. To perform insert operation, we have to call \_\_\_\_\_ function available in SQLiteDatabase class.
- a) insert()
  - b) select()
  - c) delete()
  - d) remove()
49. Which of the following field indicated that the external storage is available but not mounted?
- a) MEDIA\_NOFS
  - b) MEDIA\_SHARED
  - c) MEDIA\_MOUNTED\_READ-ONLY
  - d) MEDIA\_BAD-REMOVAL
50. Which of the following class provides the methods related to depicting the state of the media?
- a) Environment
  - b) Activity
  - c) FileInputStream
  - d) FileOutputStream
51. Which of the following is/are the methods of SharedPreferences.Editor class?
- a) apply()
  - b) clear()
  - c) putLong()
  - d) All of these
52. Which of the following method is used remove all values from the editor?
- a) remove()
  - b) clear()
  - c) finish()
  - d) apply()
53. Which of the following method is used remove the value whose key has been passed as a parameter?
- a) remove()
  - b) clear()
  - c) finish()
  - d) clearall()
54. Which of the following method is used to save a long value in a preference editor?
- a) putlong()
  - b) putfloat()
  - c) putLong()
  - d) saveLong()

55. Which of the following method is used to save an integer value in a preference editor?
- a) putInt()
  - b) putint()
  - c) putfloat()
  - d) saveInt()
56. Which of the following method is used to save a float value in a preference editor?
- a) Float()
  - b) putFloat()
  - c) puttingfloat()
  - d) setFloat()
57. Which of the following method is used to save a string value in a preference editor?
- a) putString()
  - b) string()
  - c) setString()
  - d) put string()
58. Which of the following is not the methods of SharedPreferences.Editor class?
- a) apply()
  - b) putLong()
  - c) saveInt()
  - d) remove()
59. onCreate() method is used to override in SQLite to create table.
- True
- False
60. The onUpgrade() method is used when we need to upgrade an existing database.
- True
- False
61. SQLiteOpenHelper is a helper class to manage database creation and version management.
- True
- False
62. remove() method is used remove all values from the editor.
- True
- False
63. Which objects stores the data only in key-value pair?
- a) SharedPreferences
  - b) SQLiteDatabase
  - c) Network connection
  - d) None of the above.

64. SharedPreferences stores the data in which format?
- a) TXT
  - b) XML
  - c) DOC
  - d) None of the above
65. You want to store website name by using SharedPreferences. Choose the correct option for doing this.
- a) 

```
SharedPreferences obj=getSharedPreferences("MySharedFile",
Context.MODE_PRIVATE);
obj.putString("name", "CareerRide.com");
obj.commit();
```
  - b) 

```
SharedPreferences obj= new SharedPreferences ("MySharedFile",
Context.MODE_PRIVATE);
String n=obj.getString("name", null);
```
  - c) 

```
SharedPreferences obj=getSharedPreferences("MySharedFile",
Context.MODE_PRIVATE);
Editor editor=obj.edit();
editor.putString("name", "CareerRide.com");
editor.commit();
```
  - d) None of the above.
66. To write files on the external storage, which permission you will write in AndroidManifest.xml file?
- a) WRITE\_STORAGE
  - b) WRITE\_EXTERNAL\_DATA
  - c) WRITE\_EXTERNAL\_STORAGE
  - d) None of the above.
67. In order to use internal storage to write some data in the file, which method will be used? This method returns FileOutputStream.
- openFileInput()
  - openFileOutput()
  - openForWrite()
  - None of the above.
68. How to upgrade SQLite the database from a lower version to higher version in android SQLite?
- a) Using helper Class
  - b) Using cursor
  - c) Using intent
  - d) None of the above
69. Which mode is not in SharedPreferences?
- a) MODE\_PRIVATE
  - b) MODE\_PUBLIC

- c) MODE\_APPEND
- d) None of these

70. SQLite is an inbuilt database in android.

- True
- False

71. Permission is necessary to work with the SQLite database in android.

- True
- False

72. Which objects stores only primitive data type?

- a) SharedPreferences
- b) SQLiteDatabase
- c) ContentProvider
- d) None of the above

73. To perform insert operation, we have to call insertion() function available in SQLiteDatabase class.

- True
- False

74. getWritableDatabase() method is used to write in the database.

- True
- False

75. Network storage is also known as remote storage.

- True
- False

76. saveString() method is used to save a string value in a preference editor

- True
- False

77. External storage stores persistent data on a web server.

- True
- False

78. Network connection stores persistent data on a web server.

- True
- False

79. To perform delete operation, we have to call remove() function is available in SQLiteDatabase class.

- True
- False

80. Every SQLite query will return a cursor that points to all the rows found by the query.

- True
- False