

Android Certified Application Developer - version 7 Nougat

(Exam Code: AND-401)

Exam Sample

Q1.What method you should override to use Android's menu which is placed on the action bar?

- A. onCreateOptionsMenu()
- B. onCreateMenu()
- C. onCreateOptionsMenu()
- D. onMenuCreated()

Answer: A

Q2.What Activity method you use to retrieve a reference to an Android view by using the id attribute of a resource XML?

- A. findViewByIdReference(int id)
- B. findViewById(int id)
- C. retrieveResourceById(int id)
- D. findViewById(String id)

Answer: B

Q3.Which of the following is not an Android component (i.e. a point from which the system can enter your application)?

- A. Service
- B. Activity
- C. Layout
- D. Content Provider

Answer: C

Q4.During an Activity life-cycle, what is the first callback method invoked by the system?

- A. onStop()
- B. onStart()
- C. onCreate()
- D. onRestore()

Answer: C

Q5.Which configuration file holds the permission to use the internet?

- A. Layout file
- B. Property file
- C. Java source file
- D. Manifest file

Answer: D

Q6.What does the following line of code achieve?

```
Intent intent = new Intent(FirstActivity.this, SecondActivity.class );
```

- A. Creates a hidden Intent.
- B. Creates an implicit Intent.
- C. Create an explicit Intent.
- D. Starts an activity.

Answer: C

Q7. Which of the following is NOT a valid usage for Intents?

- A. Activate and Activity.
- B. Activate a Service.
- C. Activate a Broadcast receiver.
- D. Activate a SQLite DB Connection.

Answer: D

Q8. 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

Answer: B

Q9. Which one of the following is not a valid name for process state?

- A. Bound
- B. A Visible
- C. Foreground
- D. Background

Answer: A

Q10. What is a correct statement about an XML layout file?

- A. A layout PNG image file.
- B. A file used to draw the content of an Activity.
- C. A file that contains all application permission information.
- D. A file that contains a single activity widget.

Answer: B

Q11. Which folder contains the Android project Java files?

- A. res
- B. manifests
- C. assets
- D. java

Answer: D

Q12. Which file specifies the minimum required Android SDK version your application supports?

- A. main.xml
- B. R.java
- C. strings.xml
- D. build.gradle

Answer: D

Q13. What is the parent class of all Activity widgets?

- A. ViewGroup
- B. Layout
- C. View
- D. Widget

Answer: C

Q14. What is the name of the class used by Intent to store additional information?

- A. Extra
- B. Parcelable
- C. Bundle
- D. DataStore

Answer: C

Q15.Which of the following is not included in the Android application framework?

- A. WindowManager
- B. NotificationManager
- C. DialerManager
- D. PackageManager

Answer: C

Q16.Which of the following is NOT true about the R.java file?

- A. It is auto-generated during the build of the project.
- B. It is used by developers to access any resource through an ID.
- C. It can be modified manually to change the ID of a resource.
- D. It contains resource IDs for all resources in your /res/ folder.

Answer: C

Q17.You can create a custom view by extending class Activity.

- A. True
- B. False

Answer: B

Q18.Which of these files contains text values that you can use in your application?

- A. AndroidManifest.xml
- B. res/Text.xml
- C.res/layout/Main.xml
- D. res/values/strings.xml

Answer: D

Q19. What does the Android project folder “res/” contain?

- A. Java Activity classes
- B. Resource files
- C. Java source code
- D. Libraries

Answer: B

Q20. What does this code do?

```
Intent intent = new Intent();  
intent.setAction(Intent.ACTION_VIEW);  
intent.setData(android.net.Uri.parse("http://www.androidatc.com"));  
startActivity(intent);
```

- A. Starts a sub-activity.
- B. Starts a service.
- C. Sends results to another activity.
- D. Starts an activity using an implicit intent.

Answer: D

Q21. Which method should you use to start a sub-activity?

- A. `startActivity(Intent intent)`
- B. `startActivityForResult(Intent intent)`
- C. `startService(Intent intent)`
- D. `startSubActivity(Intent intent)`

Answer: B

Q22. Which of following is NOT correct about Battery Historian tool?

- A. It is an open source script
- B. It converts the battery data collected by Batterystats into HTML visualization.
- C. It collects and converts the battery data into HTML visualization.
- D. It is not the part of Android framework.

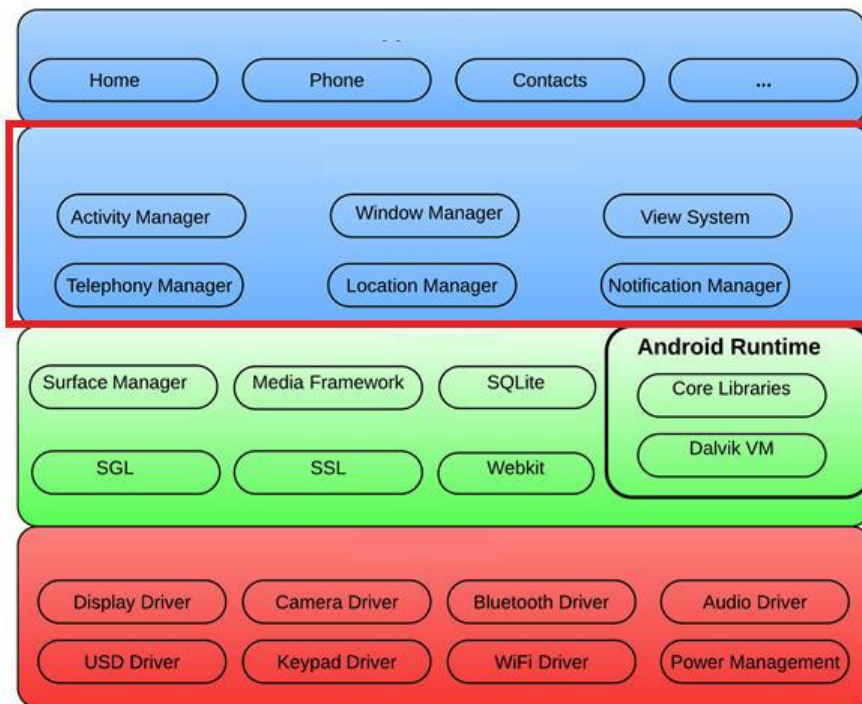
Answer: C

Q23. Which of the following is required for getting the best output from performance profiling tools in Android Studio?

- A. It works only on real devices
- B. Disable the instant run before profiling the app
- C. Enable the instant run before profiling the app
- D. Both A & C

Answer: D

Q24.What is the second layer from top called in the following diagram of Android's Architecture



- A. Applications layer.
- B. Application framework.
- C. Linux kernel.
- D. Android runtime.

Answer: B

Q25.Which of the following tools creates certificates for signing Android applications?

- A. adb
- B. logcat
- C. keytool
- D. certgen

Answer: C

Q26. Which Android permission you should add to allow your application to read the device's address book?

- A. READ_ADDRESS_DATA
- B. READ_PHONE_STATE
- C. READ_PHONE_CONTACTS
- D. READ_CONTACTS

Answer: D

Q27.Which of the following methods is called in an Activity when another activity gets into the foreground?

- A. onStop()
- B. onPause()
- C. onDestroy()
- D. onExit()

Answer: B

Q28.Which of the following attributes is used to set an activity screen to landscape orientation?

- A. screenorientation = landscape
- B. screenOrientation="landscape"
- C. android:ScreenOrientation="landscape"
- D. android:screenOrientation="landscape"

Answer: D

Q29.What is not true about the AndroidManifest.xml file?

- A. It declares the views used within the application.
- B. It declares user permissions the application requires.
- C. It declares application components.
- D. It declares hardware and software features used within the application.

Answer: A

Q30. Which of the following commands is used to dump all the battery data in txt file?

- A. adb shell dump batterystats > batterystats.txt
- B. adb shell dumpsys batterystats > batterystats.txt
- C. adb shell dump batterystats.txt > batterystats
- D. adb shell dumpsys batterystats.txt > batterystats

Answer: B

Q31.If your application is throwing exception android.content.ActivityNotFoundException, which of the following could resolve the problem?

- A. Create a new sub-class of the View class
- B. Create a new broadcast receiver
- C. Create the activity layout
- D. Add the activity to AndroidManifest.xml]

Answer: D

Q32. Which of the following statements are NOT needed to adding support for RecyclerView with CardView in your application? (Choose two)

- A.

```
dependencies {  
    compile 'com.android.support:recyclerview-v7:24.2.1'  
}
```
- B.

```
dependencies {  
    compile 'com.android.support:cardview-v7:24.2.1'  
}
```
- C.

```
dependencies {  
    compile 'com.android.support.recyclerview:design:24.2.1'  
}
```
- D.

```
dependencies {  
    compile 'com.android.support:recyclerview-v7:24.2.1'  
}
```

Answer: C & D

Q33. BROWSABLE belongs to which of the following tags

- A. `<url>`
- B. `<data>`
- C. `<category>`
- D. `<action>`

Answer: C

Q34. Which of the following is a valid attribute of ConstraintLayout?

- A. `layout_constraintEdge_toEdgeOf`
- B. `layout_constraintMiddle_toMiddleOf`
- C. `layout_constraintLeft_toRightOf`
- D. All answers are correct.

Answer : C

Q35. Consider the following code:

```
Intent intent = new Intent();  
intent.setAction(Intent.ACTION_VIEW);  
intent.setData(android.net.Uri.parse("http://www.androidatc.com"));  
startActivity(intent);
```

Which of the following is correct about the code above?

- A. It sends a result to a new Activity in a Bundle.
- B. It will not compile without adding the INTERNET permission the Manifest file.
- C. It starts any activity in the application that has a WebView in its layout.
- D. When it is executed, the system starts an intent resolution process to start the right Activity.

Answer: D

Q36. Which of the following Android View sub-classes uses the WebKit rendering engine to display web pages?

- A. PageView
- B. WebView
- C. MapView
- D. HttpClient

Answer: B

Q37. Which of the following lines of codes adds zoom controls to a WebView?

- A. `webView.getSettings().setBuiltInZoomControls(true);`
- B. `webView.getSettings().setZoomControls(true);`
- C. `webView.getZoomSettings().setControls(CONTROLS.enabled);`
- D. Zoom controls are included by default in WebViews

Answer: A

Q38. 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.

Answer: C

Q39.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.

Answer: B

Q40.Which of the following applies a context menu on a ListView? (Choose two)

- A. `ListView lv = getListView();
lv.registerForContextMenu()`
- B. `ListView lv= getListView();
registerForContextMenu(lv);`
- C. `ListView lv = (ListView) findViewById(R.id.list_view_id);
registerForContextMenu(lv)`
- D. `getListView().setConextMenuEnabled(true)`

Answer: B & C

Q41.Consider the following code :

```
@Override
public void onCreateContextMenu(ContextMenu menu, View v,
                               ContextMenuInfo menuInfo) {
    super.onCreateContextMenu(menu, v, menuInfo);
    menu.setHeaderTitle("Menu");
    AdapterContextMenuInfo cmi = (AdapterContextMenuInfo) menuInfo;
    menu.add(1, cmi.position, 0, "Open file");
    menu.add(2, cmi.position, 0, "Save file");
}
```

Which of the following best explains the code above?

- A. The code inflates an xml file into menu items.
- B. The code creates menu items for context menu programmatically.
- C. The code assign actions to menu items.
- D. The code Opens a menu resource file, modifies it, and saves the changes.

Answer: B

Q42. Which of the following does NOT correctly describe interface `android.widget.Adapter`?

- A. It is an object that acts as a bridge between a View and underlying data for that view.
- B. It provides access to the data items.
- C. It provides access to deprecated `ListView` methods.
- D. It is responsible for making a View for each item in the data set.

Answer: C

Q43. When is the intent resolution process triggered?

- A. When the system receives an implicit intent to start an activity.
- B. When an explicit intent starts a service.
- C. When the system receives an explicit intent to start an activity.
- D. When the application calls method `startActivityIntentResolution`.

Answer: A

Q44. Which of the following applies to the `onDraw()` method of class `View`? (Choose two)

- A. It must be overridden if a customized drawing of a view is required.
- B. It takes two parameters: a `Canvas` and a `View`.
- C. It takes one parameter of type `Canvas`.
- D. It uses the `Canvas` parameter to draw the border of the activity that contains it.

Answer: A & C

Q45. GPS provider requires a physical device and cannot be tested on an Emulator.

- A. True
- B. False

Answer: B

Q46. What is the location of the APK generated by the build system of Android Studio?

- A. `app/build/apk`
- B. `app/apks`
- C. `app/build/outputs/apk`
- D. `app/intermediates/outputs/apk`

Answer: C

Q47.Which of the following statements is NOT correct about Android fragments?

- A. Multiple fragments can be combined in a single activity.
- B. The life-cycle of a fragment is totally independent of the activity hosting it.
- C. Fragments have their own life-cycle.
- D. You can add/remove fragments to and an activity dynamically; i.e. while the activity is running.

Answer: B

Q48.Which of the following statements is incorrect about Android Device Monitor in Android Studio?

- A. You can display a list of currently running threads and select one to check its stack trace.
- B. It can add dynamically Google SDK libraries to the Android image running on the emulator.
- C. You can forcibly execute garbage collection and check the present heap usage status.
- D. You can do simulations of network zone speed and bandwidth limitations.

Answer: B

Q49.Which of the following is incorrect about intents?

- A. They can be used to start an Activity.
- B. They can be used to start a service.
- C. They can be used to start database insertion.
- D. They can be used to start a dialog-themed activity.

Answer: C

Q50.Method onDraw() of class android.view.View has the following signature:

- A. public void onDraw(Color)
- B. public void onDraw(Canvas)
- C. public boolean onDraw(Canvas)
- D. public Canvas onDraw()

Answer: B

Q51. Which of the following Classes is responsible for capturing the location using GPS?

- A. GPSLocationManager
- B. GPSManager
- C. LocationManager
- D. GPS Provider

Answer: C

Q52.To create a blank Wear activity in Android Studio, the project should have a minimum SDK version ≥ 20 .

- A. True
- B. False

Answer: A

Q53.To create a customized Adapter for a compound list item layout , you should:

- A. Extend class `android.widget.Adapter` or any of its descendants then override method `getView()`
- B. Extend class `android.widget.ListView` or any of its descendants, then override method `getView()`
- C. Extend class `android.widget.AbsAdapter` or any of its descendants, then override method `getView()`
- D. Extend class `android.widget.Adapter` or any of its descendants, then override method `getAdapterView()`

Answer: A

Q54.When publishing an update to your application to the market, the following must be taken into consideration:

- A. The package name must be the same, but the .apk may be signed with a different private key.
- B. The package name does not have to be the same and the .apk can be signed with a different private key.
- C. The package name must be the same and the .apk must be signed with the same private key.
- D. The package name does not have to be the same, but the .apk must be signed with the same private key.

Answer: C

Q55.Which of these is the incorrect method for an Application to save local data?

- A. Extend `PreferencesActivity` and save in an XML file.
- B. Save as a file in the local file system.
- C. Save in the database using `SQLite`.
- D. Save in the hash table file using the `Dictionary` class.

Answer: D

Q56. Which of the following lines of code is used to pass a value to the next activity?

- A. `Intent i = new Intent(this,newActivity);
i.putExtra("test");
startActivity(i);`
- B. `Intent i = new Intent(this,newActivity);
i.putValue("test");
startActivity(i);`
- C. `Intent i = new Intent(this,newActivity);
i.putValue("value1","test");
startActivity(i);`
- D. `Intent i = new Intent(this,newActivity);
i.putExtra("value1","test");
startActivity(i);`

Answer: D

Q57. Which of the following permissions is not required to integrate Google Maps into your Android application?

- A. `android.permission.WRITE_EXTERNAL_STORAGE`
- B. `android.permission.READ_EXTERNAL_STORAGE`
- C. `android.permission.ACCESS_FINE_LOCATION`
- D. All answers are correct.

Answer: C

Q58. Which of the following lines of code sets the entire Activity window as a WebView?

- A. `WebView webview = new WebView(this);
webview.setAsWindow;`
- B. `setContentView(R.layout.webview);`
- C. `WebView webview = new WebView(this);
setContentView(webview);`
- D. `setContentView("http://www.androidatc.com");`

Answer: C

Q59. Which of the following functions does not belong to LocationListener?

- A. `onLocationChanged`
- B. `onStatusChanged`
- C. `onLocationCaptured`
- D. `onProviderDisabled`

Answer: C

Q60. Consider the following code :

```
public boolean onCreateOptionsMenu(Menu menu) {  
    MenuInflater inflater = getMenuInflater();  
    inflater.inflate(R.menu.game_menu, menu);  
    return true;  
}
```

Which of the following is true about the code above?

- A. The code is auto generated and should not be edited.
- B. This method handles clicks and assign actions to menu items.
- C. This function inflates an XML file in the res/menu folder into menu items.
- D. This method inflates an XML file in the res/layout folder into layout.

Answer: C

Q61. Which of the following is a rule that developers must always follow when writing multi-threaded Android applications? (Choose two)

- A. A worker thread must not be created from inside the UI thread.
- B. Each UI thread must not create more than one worker thread.
- C. The UI thread must never be blocked.
- D. The Android UI must not be accessed from outside the UI thread.

Answer: C & D

Q62. Which of the following is the correct syntax for locating a Google Maps Camera?

- A.

```
CameraUpdate center =  
CameraUpdateFactory.newLatLng(new LatLng(49.894634, -98.22876));  
CameraUpdate zoom = CameraUpdateFactory.zoomTo(10);  
googleMap.moveCamera(center);  
googleMap.animateCamera(zoom);
```
- B.

```
CameraUpdate center =  
CameraUpdate (new LatLng(49.894634, -98.22876));  
CameraUpdate zoom = CameraUpdateFactory.zoomTo(10);  
googleMap.moveCamera(center);  
googleMap.animateCamera(zoom);
```
- C.

```
CameraUpdate center =  
CameraUpdate (49.894634, -98.22876);  
CameraUpdate zoom = CameraUpdateFactory.zoomTo(10);  
googleMap.moveCamera(center);  
googleMap.animateCamera(zoom);
```
- D.

```
CameraUpdate center =  
CameraUpdate (new LatLng(49.894634, -98.22876));  
googleMap.moveCamera(center);
```

Answer: A

Q63.Which of the following is NOT true about class AsyncTask?

- A. It must be used by sub-classing it.
- B. It must be created on the UI thread.
- C. Its sub-class override at least two methods: doInBackground, onPostExecute.
- D. It uses three generic types.

Answer: C

Q64.When the user clicks on an action item in the action bar, which of the following Activity methods does the system call?

- A. onOptionsItemSelected()
- B. onOptionsItemSelectedClicked()
- C. onActionButtonSelected()
- D. onActionBarItemSelected()

Answer: A

Q65.Gradle is the build system used in Android Studio. It builds, tests, runs, and packages your apps.

- A. True
- B. False

Answer: A

Q66.Which of the following is NOT correct about the Gradle build system of Android Studio?

- A. The Gradle build file is called build.gradle.
- B. Gradle supports generating only one build variant.
- C. Gradle uses the Groovy syntax to configure the build.
- D. A build is configured by using elements provided by the Android plugin for Gradle.

Answer: B

Q67.To use the material design features of Android 5.0, you should set the android:targetSdkVersion attribute to 20 in your application's build.gradle file.

- A. True
- B. False

Answer: B

Q68.Which UI does the following code builds?

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android=http://schemas.android.com/apk/res/android
android:layout_width="match_parent"
android:layout_height="match_parent"
android:orientation="vertical" >
<LinearLayout
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:orientation="horizontal" >
<TextView
android:id="@+id/textView1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Name:" />
<EditText
android:id="@+id/editText1"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_weight="1"
android:ems="10" />
</LinearLayout>
<Button
android:id="@+id/button1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Post" />
</LinearLayout>
```

- A. An edit text to the left of a text view and a button beneath it
- B. An edit text to the right of a text view and a button to the right of the text view
- C. An edit text to the right of a text view and a button beneath them
- D. A text view, an edit text beneath it and the button beneath the edit text

Answer: C

Q69. Assume that a XML layout has 2 views ViewA (with viewA as android:id) and ViewB (with viewB as android:id). The id of the parent layout is parentId. What would the following code display?

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <View
        android:id="@+id/viewA"
        android:layout_width="50dp"
        android:layout_height="50dp"
        app:layout_constraintLeft_toRightOf="@+id/viewB"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="@+id/viewB"/>

    <View
        android:id="@+id/viewB"
        android:layout_width="50dp"
        android:layout_height="50dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent"/>
</android.support.constraint.ConstraintLayout>
```

- A. ViewA will be on the top-left corner of the screen and to the right of ViewA will be ViewB, both aligned next to each other
- B. ViewB will be on the top-right corner of the screen. ViewA will be on top of ViewB, such that bottom edge of ViewA is touching the top edge of ViewB
- C. ViewA is in the center of the screen and ViewB is on the left of ViewA such that right edge of ViewB is touching the left edge of ViewA
- D. ViewB is in the center of the screen. ViewA is on the right of ViewB, both aligned on the same axis

Answer : D

Q70. Which of the following methods invoke a Snackbar?

- A. Make()
- B. View();
- C. Show();
- D. Create();

Answer: C

Q71. Which tag can we use to define an action for a broadcast receiver?

- A. `<receiver android:name=""> </receiver>`
- B. `<intent-filter> </intent-filter>`
- C. `<activity></activity>`
- D. `<task></task>`

Answer: B

Q72. Which ORMLite library annotation would you use to mark a class Xyz to be persisted in SQL database?

- A. `@DatabaseClass`
- B. `@DatabaseTable(tableName = "xyz")`
- C. `@DataTable(tableName = "xyz")`
- D. `@PersistenceTable(name = "xyz")`

Answer: B

Q73. Which of the following methods can we call in Notification.Builder to add an action?

- A. `setContentAction()`
- B. `setRemoteAction()`
- C. `setAction()`
- D. `addAction()`

Answer: D

Q74. Which of the following are constants for Location providers?

- A. `LocationManager.GPS_PROVIDER` and `LocationManager.NETWORK_PROVIDER`.
- B. `LocationManager.GPS_PROVIDER` and `LocationManager.GMS_PROVIDER`.
- C. `LocationManager.GMS_PROVIDER` and `LocationManager.GPS_PROVIDER`.
- D. `LocationManager.GPS_PROVIDER` and `LocationManager.GCM_PROVIDER`.

Answer: A