Mid-sem Exam

The due date for submitting this assignment has passed. **Due on 2016-09-05, 22:00 IST.**

Submitted assignment

For all the questions till Intent.

1) What is not true about an Activity

- always contains a user interface.
- talks to other activities using intents
- has multiple lifecycle states.
- goes to paused state when completely hidden.

**No, the answer is incorrect.**

**Score:** 0

**Accepted Answers:**

- goes to paused state when completely hidden.

2) What is not a major component of an Android App.

- Service
- Activity
- Background Receiver
- Intent

**No, the answer is incorrect.**

**Score:** 0

**Accepted Answers:**

- Intent

3) What is not a major component of an Android App.

- Service
- Activity
- Background Receiver
- Intent

**No, the answer is incorrect.**

**Score:** 0

**Accepted Answers:**

- Intent

4) Which of the following is the parent class of Activity?

- Object
Enhancing Your Application

- Adding Icon, Layout, Handling Rotation - I
- Adding Icon, Layouts, Handling Rotation - II
- Debugging

Intents

- Intents - I
- Intents - II
- Observer Pattern

Fragments

- Fragments - I
- Fragments - II
- Fragment Basic Programming Example
- Quiz : Mid-sem Exam

Fragments, Files, Database

- Fragments - Advanced Example
- Implicit Intents
- Saving Data - I
- Saving Data - II
- Quiz : Quiz 2

Security, Services, and Processes

- Security and System Permissions
- Services
- Processes and threads

Fragment Programming

- Working with Fragments
- Working with Fragments - II
- Working with Fragments - III

UI, Adapters, RecyclerView

No, the answer is incorrect.
Score: 0
Accepted Answers: Context

Context
ActivityGroup
ContextThemeWrapper

No, the answer is incorrect.
Score: 0
Accepted Answers: ContextThemeWrapper

5) Which of the following is not a type of UI layout.

- Frame layout
- Grid view
- List view
- Horizontal layout

No, the answer is incorrect.
Score: 0
Accepted Answers: Horizontal layout

6) In which of the following layouts, the position of a UI element depends on the position of other UI elements.

- List view
- Linear layout
- Absolute layout
- Relative layout

No, the answer is incorrect.
Score: 0
Accepted Answers: Relative layout

7) What is the importance of Hierarchy Viewer?

- Provides a visual representation of layout's view hierarchy.
- Monitor the sequence of intents.
- Helps you discover bottlenecks in the layout performance.
- None of the above.

No, the answer is incorrect.
Score: 0
Accepted Answers: Helps you discover bottlenecks in the layout performance.

8) Which of the following layout designs can be optimised for a better performing UI?

- A layout that has no children or no background.
- A deeply nested layout.
- A layout with children that has no siblings, is not a ScrollView or a root layout, and does not have a background.
- All of the above.

No, the answer is incorrect.
Score: 0
Accepted Answers: All of the above.

9) What is the drawback of using ‘in’ (inches) as the unit of padding?

- Padding value scales itself proportionate to the size of screen.
- Padding value does not scale across different screen sizes.
- We get more precision compared to other units like px, dp etc.

No, the answer is incorrect.
Score: 0
10) Which of the following layouts has the layout_weight property?  
- Relative layout  
- Table layout  
- List view  
- None of the above

**No, the answer is incorrect.**

Score: 0

**Accepted Answers:**

Padding value does not scale across different screen sizes.

11) Which of the following layouts is often used to display dynamic enumerated data?
- Linear layout  
- List view  
- Relative layout  
- Table layout

**No, the answer is incorrect.**

Score: 0

**Accepted Answers:**

List view

12) What happens when a button is clicked but its onClickListener is not defined?
- App will crash.  
- A toast will be displayed.  
- Nothing will happen.  
- Wrong question, the button would not appear in the UI.

**No, the answer is incorrect.**

Score: 0

**Accepted Answers:**

Nothing will happen.

13) What is the correct sequence of execution of android activity lifecycle methods when the screen is rotated?
- onCreate(), onStart(), onResume()  
- onPause(), onStop(), onDestroy(), onCreate(), onStart(), onResume()  
- onDestroy(), onCreate(), onStart(), onResume()  
- None of the lifecycle methods will be invoked.

**No, the answer is incorrect.**

Score: 0

**Accepted Answers:**

onPause(), onStop(), onDestroy(), onCreate(), onStart(), onResume()

14) Suppose you have logged into a game using your gmail id and your gmail app running in the background crashes, what will happen?
- The game will also crash.  
- Nothing happens to the game that is purely the outcome of the gmail app crash.  
- You cannot login/logout of the game.  
- You will be automatically logged out from the game due to crashing of the gmail app.

**None of the above**

No, the answer is incorrect.

Score: 0

**Accepted Answers:**

None of the above

https://onlinecourses.nptel.ac.in/noc16_cs13/unit?unit=64&assessment=67
No, the answer is incorrect.
Score: 0
Accepted Answers: 
Nothing happens to the game that is purely the outcome of the gmail app crash.

15) Which of the following app components are not activated by intents? 
- Activities
- Services
- Content providers
- Broadcast receivers

No, the answer is incorrect.
Score: 0
Accepted Answers: 
Content providers

16) Which of the following is true when an app (A) starts another app’s (B) component?
- An app cannot run another app’s components.
- B’s component runs in the process in which A is running.
- Both A and B should be running in the same process.
- B’s component runs in B’s process.

No, the answer is incorrect.
Score: 0
Accepted Answers: 
B’s component runs in B’s process.

17) Which of the following is true:
- An android app execution starts from the function ‘main()’.
- Apps running on different processes can directly activate each other’s components.
- Android OS shuts down when it goes out of memory.
- None of the above

No, the answer is incorrect.
Score: 0
Accepted Answers: 
An android app execution starts from the function ‘main()’.

18) Which of the following is true about android manifest file?
- It defines the UI elements of each activity.
- It cannot force an orientation to an activity.
- It describes all the components of the application.
- None of the above

No, the answer is incorrect.
Score: 0
Accepted Answers: 
It describes all the components of the application.

19) Which of the following can be a sequence of android lifecycle methods?
- onPause(), onStart(), onResume()
- onRestart(), onStart(), onResume()
- onPause(), onStop(), onDestroy(), onRestart()
- None of the above.

No, the answer is incorrect.
Score: 0
Accepted Answers: 
onRestart(), onStart(), onResume()
20. An activity never resides in which of the following states?  
   - Created  
   - Stopped  
   - Destroyed  
   - Resumed  

   **No, the answer is incorrect.**  
   **Score: 0**  
   **Accepted Answers:**  
   - Created

21. Which of the following will definitely trigger `onDestroy()` method?  
   - `finish()` method  
   - Android OS destroys the process in which the app was running  
   - Current app leaves the foreground completely  
   - App is killed  

   **No, the answer is incorrect.**  
   **Score: 0**  
   **Accepted Answers:**  
   - `finish()` method

22. Which of the following is not a Logcat method? (ignore function parameters)  
   - `Log.v()`  
   - `Log.i()`  
   - `Log.wtf()`  
   - `Log.a()`  

   **No, the answer is incorrect.**  
   **Score: 0**  
   **Accepted Answers:**  
   - `Log.a()`

23. What is the purpose of adding padding to a UI element?  
   - It separates the element from elements outside it.  
   - Moves contents of an element away from its edges.  
   - Both A and B  
   - None of the above  

   **No, the answer is incorrect.**  
   **Score: 0**  
   **Accepted Answers:**  
   - Moves contents of an element away from its edges.

24. What is the structure of extra information (Bundle) passed while starting a new activity?  
   - List  
   - Integer  
   - Key-value pair  
   - String  

   **No, the answer is incorrect.**  
   **Score: 0**  
   **Accepted Answers:**  
   - Key-value pair

25. What will happen if a TextView variable is assigned the type `View`?  
   - App will not compile.  
   - App will crash  
   - TextView will work fine  

   **No, the answer is incorrect.**  
   **Score: 0**  
   **Accepted Answers:**  
   - TextView will work fine
Nothing will be displayed

No, the answer is incorrect.
Score: 0

Accepted Answers:
TextView will work fine

26) How do we ensure backward compatibility (smartly) of the app?  

- Running on all the phones; old and new
- Only compiling for the latest Android SDK
- Disable some features of the app using newer Android Versions
- Specifying minSDK version

No, the answer is incorrect.
Score: 0

Accepted Answers:
Specifying minSDK version

27) What is a callback?  

- A function that is called when the app stops.
- A function that is called when an event occurs.
- All of these.
- A function that is called when the app starts.

No, the answer is incorrect.
Score: 0

Accepted Answers:
All of these.

28) Which of the following can be used to detect errors in the app?  

- Gradle
- Logcat
- OnClickListener
- None

No, the answer is incorrect.
Score: 0

Accepted Answers:
Logcat

29) Which Exception is thrown when you try to access the index -1 in a List?  

- IOException
- NullPointerException
- Compilation error
- No exception will be thrown

No, the answer is incorrect.
Score: 0

Accepted Answers:
NullPointerException

30) What will happen if an id R.id.something is not specified in the XML, but accessed in the source code?  

- App will crash/not compile.
- A message will be displayed.
- Nothing will happen.
- The View will work fine without any problems.

No, the answer is incorrect.
Score: 0
31) Where should the images be normally stored in a project?  
- src
- AndroidManifest.xml
- res/layout
- res/drawable

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
res/drawable

32) Which of the following is NOT a type of an intent?  
- Exhaustive Intent
- Explicit Intent
- Implicit Intent
- None of these

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Exhaustive Intent

33) What is the process of displaying the fields present in the layouts?  
- Inflating
- Overriding
- Bundle attaching
- None of these

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Inflating

34) How many levels of Log labels are there?  
- 3
- 4
- 5
- 6

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
6

35) Which of the following is NOT specified in AndroidManifest.xml?  
- Global Variables
- Permissions
- Activities
- Services

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Global Variables

36) Is it a good practice to have one icon of fixed resolution?  
- No, we need icons for different pixel density screens

No, we need icons for different pixel density screens
No, android takes care of it

Yes

None

No, the answer is incorrect.
Score: 0

Accepted Answers:
No, we need icons for different pixel density screens

37) Which of the following is used to restore information when the app is destroyed?  

- String savedInstanceState  
- Integer savedInstanceState  
- ArrayList sacrtdInstanceState  
- Bundle savedInstanceState

No, the answer is incorrect.
Score: 0

Accepted Answers:
Bundle savedInstanceState

38) Which of the following is NOT true  

- @Override is used to change definition of a function  
- Not all methods of an interface need to be redefined  
- An Interface and abstract class are not the same  
- A class can inherit another class as well as implement any interface

No, the answer is incorrect.
Score: 0

Accepted Answers:
Not all methods of an interface need to be redefined

39) What happens when a button is present in the source code but its XML is not defined?  

- App will crash/not compile.  
- A message will displayed.  
- Nothing will happen.  
- The button would appear in the UI.

No, the answer is incorrect.
Score: 0

Accepted Answers:
App will crash/not compile.

40) Which of these is not a part of the APK?  

- Resources  
- Dalvik Executable  
- A and B  
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
None of the above

41) How can you prevent your app from showing ANR messages?  

- Kill the application process periodically  
- Create a child thread where expensive computations are done  
- A and B  
- None of the above
No, the answer is incorrect.
Score: 0
Accepted Answers:
Create a child thread where expensive computations are done

42) Which data structure is used when a new activity is opened?

- List
- Queue
- Priority queue
- Stack

No, the answer is incorrect.
Score: 0
Accepted Answers:
Stack

43) Many of you must have used an Android emulator to test your applications. Which of the following statements are true about the emulator?

- The emulator runs your application the same way as your phone
- The emulator is only a virtual machine
- An emulator is exactly same as a simulator
- An emulator can emulate sensors of the phone

No, the answer is incorrect.
Score: 0
Accepted Answers:
The emulator runs your application the same way as your phone

44) In exception handling, what is the difference between “throw” and “throws”?

- It is the same thing
- “throw” is used to explicitly throw an exception and “throws” is used to declare an exception
- You can declare multiple exceptions with “throw” but you cannot do that with “throws”
- None of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
“throw” is used to explicitly throw an exception and “throws” is used to declare an exception

45) Which of the following statements are false?

- Multiple activities can be running at a given point in time
- Only one activity can be running at a given point in time
- ContentProvider connects code running in one process to data in another process
- A and C

No, the answer is incorrect.
Score: 0
Accepted Answers:
Multiple activities can be running at a given point in time

46) Which of the following statements are true?

- The receiver type is mentioned by the sender in an explicit intent
- Activity is always stopped before being destroyed
- When an activity is in stopped state, it does nothing
- All statements are false

No, the answer is incorrect.
Score: 0
Accepted Answers:
All statements are false
47) Which of the following are true about interfaces in Android?  
- An interface has a constructor  
- An interface cannot be instantiated  
- Interface exists in the layout.xml file  
- All statements are true

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
An interface cannot be instantiated

48) What will happen if you have an infinite loop running in your application?  
- Phone will shut down  
- App will crash immediately  
- The app will freeze and crash after sometime  
- Android will not let the loop run

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
The app will freeze and crash after sometime

49) Which of the following statements are true about intents?  
- Intents are used for starting new activities and services  
- Intents are asynchronous  
- A and B  
- None of the above

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
A and B

50) What will happen if you use ListView and keep increasing the size of the list?  
- Nothing, app will work fine  
- App will become slow eventually  
- Android OS will crash  
- None of the above

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
App will become slow eventually

51) How many types of orientations (like landscape and horizontal) does Android support?  
- 2  
- 3  
- 4  
- 1

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
4

52) Which of the following statements is false?  
- App permissions are contained in the Android Manifest  
- The layout.xml file contains strings used in the app  
- The layout.xml file contains the code which is used to run the app

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
The layout.xml file contains the code which is used to run the app
53) Is it possible to have an Activity without UI in Android?
   - Yes, it is possible!
   - No, it cannot be done because all activities need to have a UI compulsorily
   - Sometimes possible, sometimes not possible
   - None of the above
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   B and C

54) After an application is installed, where is it stored?
   - External memory
   - Sandbox
   - Internal memory
   - Phone database
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   Yes, it is possible!
   Sandbox