

You are taking "20231_MobileProgramming_Midterm_Exam" as a timed exam. The timer on the right shows the time remaining in the exam. To receive credit for problems, you must select "Submit" for each problem before you select "End My Exam". **Show Less**

[Course](#) > [Exams](#) > [20231_MobileProgramming_Midterm_Exam](#) > **Exam**

This section is a prerequisite. You must complete this section in order to unlock additional content.

Exam

Midterm Exam due Dec 6, 2023 19:00 +07

Question #674b3e

1/1 point (graded)

What is the intent action to open a web page?

- ☐ Intent.ACTION_ACCESS_INTERNET
- ☐ Intent.ACTION_WEB_VIEW
- ☐ Intent.ACTION_MAIN
- ☐ Intent.ACTION_GET_CONTENT
- ☒ Intent.ACTION_VIEW



Submit

✓ Correct (1/1 point)

Question #865ffe

1/1 point (graded)

Which of following is wrong about implicit intent?

- ☒ To call implicit, you have to know the class name of the destination activity
- ☐ Android runtime will open the app chooser if there exists more than one candidate for the implicit intent
- ☐ Android runtime receive the requests and try to find the matched application
- ☐ Android runtime keeps list of application registering to run the implicit intent



Submit

✓ Correct (1/1 point)

Question #f1db78

1/1 point (graded)

An activity contains the following code in onCreate(). What will happen when this code is executed, if the intent property is null?

val message = intent.extras?.getString("message").toString()

- ☐ The app will not crash because the extras property is accessed safely using ?.
- ☐ The app will crash because it attempted to access a null object.

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✓ Correct (1/1 point)

Question #f1d872

1/1 point (graded)

What is the purpose of implicit intent?

- ☐ to close an activity in other application
- ☐ to open an service in current application
- ☒ to open an activity in other application
- ☐ to open an activity in current application



Submit

✓ Correct (1/1 point)

Question #3811af

1/1 point (graded)

Overdiding the callback onSaveInstanceState is not suitable in which situation?

- ☐ save some states of Activity and restore latter when there is a device configuration changed
- ☐ save some states of Activity and restore latter when user rotates the device screen
- ☐ save some states of Activity and restore latter when user changes the language of the device
- ☒ store data into SD card to permanently use latter



Submit

✓ Correct (1/1 point)

Question #7df36e

1 point possible (graded, results hidden)

Which is a possible way/language to develop Android application?

- ☒ Native approach: Java/Kotlin
- ☒ Web-based approach
- ☐ Universal Windows Platform (UWP) approach
- ☐ Object C
- ☒ Flutter

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Question #85f45a

1 point possible (graded)

Which of the following are true about abstract classes?

- ☒ They can be extended by subclasses and implementations can be provided for abstract members of the class.
- ☐ They have an implementation for all of their properties and functions.
- ☒ They may have abstract properties or abstract functions.
- ☐ They can be instantiated.
- ☒ They are not fully implemented and cannot be instantiated.
- ☐ They need to be marked with the open keyword to be extended.

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Question #2d341d

1 point possible (graded)

Both Toast and Logcat can be used to debug the program, which expression bellow is wrong?

- ☐ Toast displays information at device while Logcat displays information at the host
- ☒ Logcat only display information that developer logs out
- ☐ Logcat can not be shown on computer without connection between the computer and the Android device
- ☐ Toast can be used to display some guidelines for user

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Question #8293fe

1 point possible (graded)

Which of the following is a benefit of using fragments?

- ☒ Navigation between fragments allows for more sophisticated user interface patterns, such as tab bars.
- ☒ Using multiple fragments within an activity allows for an adaptive layout across multiple screen sizes.
- ☒ The same fragments can be reused across multiple activities.
- ☐ Ffragment is more lightweight than ACTivity sothat we should use Fragment rather than

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Question #a55108

1 point possible (graded)

What is the advantage of Android development environment compare to iOS development environment?

- ☐ the UI experience is better

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Question #b0491d

1 point possible (graded)

Which of the following is true about Gradle?

- ☐ Gradle is an automated build system used by Android Studio to build your apps.
- ☐ Gradle handles installing your app on a device
- ☐ Your app’s build.gradle file is written in XML.
- ☐ You can configure Android-specific options for your project in your app’s build.gradle file.
- ☐ The gradle configuration for your project cannot change after you initially create the project.

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Question #febc95

1 point possible (graded)

Which of the following statements about app icons are true?

- ☐ It is sufficient to provide a single bitmap image of your app icon in your project to make it appear high quality on a range of Android devices.
- ☐ mdpi, hdpi, xhdpi, xxhdpi, and xxxhdpi are density qualifiers for resource directories to indicate that these are resources to be used on devices with a specific screen density.
- ☐ Adaptive icons are made up of a foreground and background layer, and an OEM mask will be applied on top of them.
- ☐ Vector drawables only work for a certain screen density and should not be scaled.

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Question #8ba9db

1 point possible (graded)

Suppose we have an image named "mobile.png" in the res/drawable folder, and we have an ImageView in the activity layout, which method could be used to set the image source for the ImageView as the image mobile.png

- ☐ setImageResource(R.id.mobile)
- ☐ setImageResource(R.drawable.mobile)
- ☐ setImageDrawable(R.drawable.mobile)
- ☐ setImageResource(R.drawable.mobile.png)

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Question #05bb2f

1 point possible (graded)

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- ☐ centerCrop
- ☐ center

Submit

Question #d7c1b1

1 point possible (graded)

Which of the following is not a challange for Android application development?

- ☐ The deverloper may have to use different development tools in different OS
- ☐ The application must have compatibility with several different versions of Android
- ☐ The application mus be designed for multiple resolutions
- ☐ Source code and user’s data must be secured

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Question #c4ad85

1 point possible (graded)

Which of the following tasks can be performed in `onCreate()` ?

- ☐ Configuring views, such as setting the layout manager of a recycler view
- ☐ Determining the items to be shown in the options menu.
- ☐ Setting the `onClick`Listener for items in the options menu.
- ☐ Getting extras from the intent that launched the activity.

Submit

Question #aaaa37

1 point possible (graded)

The (fill in the blank with case sensitive)

Answer:

method needs to be overridden in the host activity to ensure your app’s fragment-based navigation responds to the app’s "Up" button?

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Question #1e1bf6

1 point possible (graded)

The 'when' statement in Kotlin is similar to which statement in other programming languages?

- ☐ continue

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Question #226241

1 point possible (graded)

If you activity has the name: SampleActivity, what is the name of the binding class which is generated automatically by Android when you configure your application as data binding enable?

- ☐ sample_activity_binding
- ☐ ActivitySampleBinding
- ☐ activity_sample_binding
- ☐ SampleActivityBinding

Submit

Question #10afe5

1 point possible (graded)

The RadioGroup class is directly inherited from which class?

- ☐ LinearLayout
- ☐ RelativeLayout
- ☐ android.widget.view
- ☐ ConstrainLayout
- ☐ ViewGroup

Submit

Question #8e524e

1 point possible (graded)

In the fragment lifecycle, which of the following tasks should be performed in onViewCreated() ?

- ☐ Inflating the layou
- ☐ Binding view objects to properties in your fragment
- ☐ Configuring the options menu
- ☐ Setting properties of individual views, such as a recycler view’s adapter

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Question #a5de4f

1 point possible (graded)

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- ☐ Context Menu
- ☐ Navigation Drawer Menu

Submit

Question #abf1d1

2 points possible (graded)

Given following code, select the correct :

val address =

Select an option

Answer:

.parse("https://soict.hust.edu.vn")

val intent:Intent = Intent(Intent.ACTION_VIEW,

Select an option

Answer:

)

startActivity(intent)

Submit

Question #d757ef

1 point possible (graded)

What is the language to program Android natively (select all correct answers)?

- ☐ Java
- ☐ HTML, CSS, Javascript
- ☐ Kotlin
- ☐ C/C++

Submit

Question #52b8a6

1 point possible (graded)

Suppose we write an application to survey the hobby of people (there are 5 hobbies to be surveyed), one person may have several hobbies. Which input controls is suitable for this purpose?

- ☐ RadioButton
- ☐ Recycler View
- ☐ DropDownList
- ☐ ListView

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Question #ccbe41

1 point possible (graded)

Fill in the blank

The

Answer:

is called when you create an instance of a class.

Submit

Question #adfc6e

1 point possible (graded)

When is the current Activity reset, i.e., the onCreate callback is called again?

- ☐ user rotates the phone
- ☐ user changes the language of the phone
- ☐ user presses the home button and opens another app
- ☐ the phone is going to out of battery

Submit

Question #bd37a0

1 point possible (graded)

Android typically takes name of some popular cakes to name the Android version.

From which version, cakes' name is not taken for Android version?

- ☐ Android 11
- ☐ Android 9
- ☐ Android 10
- ☐ Android 8

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Question #8faed3

1 point possible (graded)

How to shutdown/finish an activity?

- ☐ destroy()
- ☐ finish()

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Question #e5a25

1 point possible (graded)

Which widget view could be used to make a clickable object with image content?

- ☐ Button
- ☐ ImageButton
- ☐ ImageView
- ☐ Image
- ☐ TextView

Submit

Question #0c26

1 point possible (graded)

If we have some buttons in one Activity, and all the buttons set the event `onClickListener` to the Activity by calling `setOnClickListener(this)` . So, in the callback function `onClick` of the Activity, how do you know which button is clicked?

- ☐ based on the order of buttons inside the xml layout file
- ☐ based on the name of each button
- ☐ based on the position of each button
- ☐ based on the id of each button

Submit

Question #51f

1 point possible (graded)

Which is the direct parent class of the Button class?

- ☐ `android.widget.View`
- ☐ `android.view.TextView`
- ☐ `android.view.View`
- ☐ `android.widget.TextView`

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Question #c7

1 point possible (graded)

Which of following components belong to android native library?

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4) Dalvik

5) OpenUI

- ☐ 1,3,4
- ☐ 1,2,3
- ☐ 1,2,5
- ☐ 3,4,5

Submit

Question #7

1 point possible (graded)

What are correct callback functions of Android activity life cycle?

- ☐ onCreate(), onInit(), onStart(), onPause(), onStop(), onDestroy(), onResume()
- ☐ onCreate(), onStart(), onResume(), onPause(), onStop(), onRestart(), onDestroy()
- ☐ onCreate(), onStart(), onPause(), onResume(), onFinish(), onStop(), onDestroy()
- ☐ onCreate(), onStart(), onActivityCreated(), onResume(), onPause(), onStop(), onActivityDestroy(), onDestroy()

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Question #955737

1 point possible (graded)

To make the EditText allows password characters (e.g., display * instead of the real character), you have to set the value of the `inputType` property as (type your answer with case sensitive)

Answer:

Submit

Question #30a624

1 point possible (graded)

Why use the Material Components for Android library?

- ☐ It provides widgets that follow the Material Design guidelines such as text fields and switches.
- ☐ It makes your code compile faster.
- ☐ It provides default Material themes that you can use directly or extend and then customize.
- ☐ It automatically suggests ways for your app to look better.
- ☐ It helps you more quickly build beautiful user experiences.

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1 point possible (graded)

Given following code:

```
val intent = Intent([ ], Uri.parse("123456789"))
```

```
intent.putExtra("sms_body", "hello")
```

```
startActivity(intent)
```

what could be filled in the []?

- ☐ Intent.ACTION_SEND_SMS
- ☐ Intent.ACTION_SEND
- ☐ Intent.ACTION_SEND_MULTIPLE
- ☐ Intent.ACTION_SENDTO

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Question #da65fd

1 point possible (graded)

What is the flexible point of Android devices compare to iOS ones?

- ☐ user data is more secured
- ☐ can connect to multiple peripheral devices such as mouse or keyboard
- ☐ backup and restore data easily with cloud services
- ☐ allow to install apps from third party sources (not from Google play store)

Submit

Question #1f9817

1 point possible (graded)

Which kind of menu will be opened if user presses and hold for a while?

- ☐ Instant Menu
- ☐ Context Menu
- ☐ Drawer Menu
- ☐ Option Menu

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Question #7ae844

1 point possible (graded)

True or False: onCreateView() is only called once for a fragment’s entire lifecycle?

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Question #21d578

1 point possible (graded)

What is the function to open new activity from the current activity?

- ☐ newActivity
- ☐ beginActivity
- ☐ startActivity
- ☐ openActivity

Submit

Question #b3debb

1 point possible (graded)

The res folder does not include which following resources?

- ☐ file to define dependence libraries used in project
- ☐ file to define strings, colors used in project
- ☐ file to define demensions used in project
- ☐ file to define the menu structure used in project

Submit

Question #28779a

1 point possible (graded)

What are lambdas in Kotlin?

- ☐ A lambda is an expression that describes a function. But instead of declaring a named function, you declare a function that has no name
- ☐ A lambda is a Class type in Kotlin
- ☐ A lambda is an Interface in Kotlin
- ☐ A lambda is a Data Type in Kotlin

Submit

Question #a5ec76

1 point possible (graded)

Where to configure the home activity - the first activity to be run in your application?

- ☐ in the AndroidManifest.xml
- ☐ in the project level gradle file

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Question #d453f0

1 point possible (graded)

What is the default return type of any functions defined in Kotlin?

—