Final Exam - Module C

Due May 11 at 11:59pm   **Points** 18   **Questions** 18
Time Limit 30 Minutes

Instructions

See the home page for the topics that the final exam will cover. This module has 18 question and you have 30 minutes to complete them.

Attempt History

	Attempt	Time	Score
LATEST	**Attempt 1**	30 minutes	17 out of 18

Score for this quiz: **17** out of 18
Submitted May 2 at 7:28pm
This attempt took 30 minutes.

Question 1   1 / 1 pts

What method or constructor do you use to add a key-value pair to an Intent?

   ○ addEntry(...)

   ○ new Bundle(...)

Correct!   ⦿ putExtra(...)

   ○ setArguments(...)

Question 2   1 / 1 pts

Which of the following is a message object you can use to communicate with other applications or activities asynchronously?

○ A Service

○ An Action

○ An Activity

Correct!   ◉ An Intent

Question 3   1 / 1 pts

How do we get the view-binding of a list-item layout (for a recycler view)?

○ Create an itemBinding in the onCreate method of the fragment that holds the recycler view, and pass it to the adapter.

○ Create an itemBinding in the onCreateView method of the fragment that holds the recycler view, and pass it to the adapter.

Correct!   ◉ Create an itemBinding in the adapter of the recycler view, and pass it to the view-holder.

○ Create an itemBinding in the view-holder of the recycler view.

Question 4   1 / 1 pts

Which sensor detects whether your phone is in landscape or portrait mode?

Correct!

- ● Accelerometer

- ○ Gyroscope

- ○ Magnetometer

- ○ GPS

Question 5   1 / 1 pts

Consider the following declaration in Java.

```
String text = null;
```

What is the most reasonable way to translate the declaration translate to Kotlin? (It may not be the way that Android Studio would translate it without context)

- ○ val text: String = null

- ○ val text: String? = null

- ○ var text: String = null

Correct!

- ● var text: String? = null

Question 6   1 / 1 pts

Which of the following is the correct way to use a Kotlin string template?

○ Log.i(TAG, "Got a request for a URL " + requestMap[target])

○ Log.i(TAG, "Got a request for a URL: {requestMap[target]}")

Correct! ◉ Log.i(TAG, "Got a request for a URL: ${requestMap[target]}")

○ Log.i(TAG, "Got a request for a URL: $requestMap[target]")

Question 7   1 / 1 pts

Some listeners are triggered not only when the user interacts with them,
but also when the view state is restored (as in rotation). Examples are
listeners for EditText and CheckBox. Where should these listeners be set
up?

○ onCreate

○ onCreateView

Correct! ◉ onStart

○ onResume

Question 8   1 / 1 pts

In CriminalIntent, which types does CrimeHolder extend and/or
implement?

○ extends both RecyclerView.ViewHolder and View.OnClickListener

○ extends RecyclerView.ViewHolder and implements nothing

Correct!

⦿

extends RecyclerView.ViewHolder and implements View.OnClickListener

○   implements both RecyclerView.ViewHolder and View.OnClickListener

---

Question 9   1 / 1 pts

What kind of database does the Room component library use?

○   JSON

○   MongoDB

○   MySQL

Correct!   ⦿   SQLite

Question 10   1 / 1 pts

Which of the following Room annotations require SQL code?

○   @Delete

○   @Insert

Correct!   ⦿   @Query

○   @Update

Question 11   1 / 1 pts

Consider the following code from CriminalIntent.

```
var crimeLiveData: LiveData<Crime?> =
    Transformations.switchMap(crimeIdLiveData) { crimeId ->
        crimeRepository.getCrime(crimeId)
    }
```

What class is observing crimeLiveData?

○ CrimeActivity

○ CrimeDetailViewModel

Correct!

◉ CrimeFragment (CrimeDetailFragment)

○ CrimeRepository

Question 12   1 / 1 pts

Consider the following code from the CriminalIntent application.

```
interface Callbacks {
    fun onCrimeSelected(crimeId: UUID)
}
```

Which class implements this interface?

Correct!

◉ CrimeActivity

○ CrimeAdapter

○ CrimeHolder

○ crimeRepository

Question 13   1 / 1 pts

In the Gallery application, we send a URL to Flickr and retrieve JSON data. If we type the same URL into the address bar of a web browser, what will happen?

○ we will get a 404 error page (page not found)

○ we will get a blank page because the browser can't interpret the JSON result

Correct!

◉ we will get a page containing JSON data as a text string

○ we will get a page of strange characters because the JSON is returned in binary format

Question 14   1 / 1 pts

In the Retrofit library, which class has methods enqueue and execute?

Correct!

◉ Call

○ Handler

○ Request

○ Response

Question 15   1 / 1 pts

Which of the following is NOT true about handler threads?

○ A handler thread starts a new thread with a looper

Correct!

◉ Handler threads only have one Handler

○ Handler threads only have one Looper and one MessageQueue

○ ThumbnailDownloader is a HandlerThread

Question 16   0 / 1 pts

In the Gallery application, which PhotoGalleryFragment callback function adds the thumbnail-downloader's view-lifecycle-observer as an observer?

ou Answered

◉ onCreate

rrect Answer

○ onCreateView

○ onViewCreated

○ onLifecycleViewCreated

Question 17   1 / 1 pts

In the Gallery application, which argument "extra" was used to obtain latitude and longitude from the Flickr API?

Correct!

- ◉ geo

- ○ gps

- ○ latlng

- ○ pos

Question 18   **1 / 1 pts**

In an Android application, the main UI thread is also a message handler.

Correct!

- ◉ True

- ○ False

Quiz Score: **17** out of 18