

Final Exam - Module E

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	<u>Attempt 1</u>	26 minutes	15 out of 18

Score for this quiz: **15** out of 18

Submitted May 2 at 8:14pm

This attempt took 26 minutes.

Question 1

0 / 1 pts

In the Adapter of a RecyclerView, is onCreateViewHolder or onBindViewHolder called more frequently?

☐

They are both called a limited number of times when the recycler-view is being set up. Neither are called frequently

☒

They are both called frequently as the recycler-view changes.

☐

onBindViewHolder is called a limited number of times when the recycler-view is being set up, but onCreateViewHolder is called frequently as the recycler-view changes

You Answered

Correct Answer☐

onCreateViewHolder is called a limited number of times when the recycler-view is being set up, but onBindViewHolder is called frequently as the recycler-view changes

Question 2**1 / 1 pts**

Which sequence below shows the correct lifecycle order for an Activity that is starting up?

☐

onStart, onCreate, onResume

☐

onCreate, onResume, onStart

☐

onResume, onCreate, onStart

☒

onCreate, onStart, onResume

Correct!**Question 3****0 / 1 pts**

Why is RecyclerView called RecyclerView?

☐

It recycles ViewHolders by creating a fixed number and rebinding their contents

☐

It recycles the same ViewHolder object for all contents

☐

It recycles information discarded by other views

☒

It recycles the contents of ViewHolders

Correct Answer**You Answered**

Question 4**1 / 1 pts**

A bad sensor exhibits noise - random deviation of the signal over time. A possible solution for noise is to...

Correct!

- ☐ Cancel ambient noise using a secondary microphone
- ☒ Filter it out using signal processing techniques
- ☐ Correct it using calibration
- ☐ Moderate the sensor's temperature using a heat sink

Question 5**1 / 1 pts**

Assume the view-binding in my fragment code has type `FragmentMyDetailBinding`. What is the name of the fragment's layout?

Correct!

- ☐ `fragment_my_detail_binding.xml`
- ☐ `my_detail_fragment_binding.xml`
- ☒ `fragment_my_detail.xml`
- ☐ `my_detail_fragment.xml`

Question 6**1 / 1 pts**

Which company developed Kotlin?

- ☐ Google
- ☐ Oracle
- ☒ JetBrains (makers of AndroidStudio)
- ☐ Apple

Correct!

Question 7

1 / 1 pts

In a fragment, it is good practice to create a newInstance method to be called by the hosting activity. Where should the newInstance method be declared?

- ☐ as a method directly in the class
- ☒ inside the companion object for the class

Correct!

Question 8

1 / 1 pts

You cannot add an on-click listener to a floating action button.

- ☐ True
- ☒ False

Correct!

Question 9**1 / 1 pts**

In the Android Application Architecture, a Repository can be used to manage multiple data sources, such as a database and a web service.

Correct!☒ True☐ False**Question 10****1 / 1 pts**

Which method is typically used to register a fragment as an observer of a LiveData object?

Correct!☒ onCreateView☐ onCreate☐ onStart☐ onCreateView**Question 11****1 / 1 pts**

In the CriminalIntent application, database access runs on the UI thread

Correct!☒ False☐ True

Question 12**1 / 1 pts**

In our final Gallery application, where did we store (cache) the thumbnails?

- ☐ In a map of galler-item to drawable in the repository (FlickrFetchr)
- ☐ In a list of drawables in the GalleryViewModel
- ☐ In a list of drawables in the repository (FlickrFetchr)
- ☒ In a drawable property in the GalleryItem class

Correct!**Question 13****1 / 1 pts**

In the Gallery application, what kind of component is FlickrFetchr?

- ☐ a UI component
- ☐ a REST API component
- ☐ a ViewModel
- ☒ a Repository

Correct!**Question 14****1 / 1 pts**

In CriminalIntent, RecyclerView items are displayed in a list; in PhotoGallery, RecyclerView items are displayed in a grid. What determines how RecyclerView items are displayed?

Correct!

- ☒ the layout manager associated with the RecyclerView
- ☐ the layout resource (XML file) that holds the recycler view
- ☐ the type of views that the RecyclerView holds (eg. Buttons are displayed in lists, and ImageViews are displayed in grids)
- ☐ the display method defined in the ViewHolder of the RecyclerView

Question 15**1 / 1 pts**

ThumbnailDownloader has as access to two handlers: one for the UI thread (responseHandler), and one for the thread it starts (requestHandler).

- ☐ False
- ☒ True

Correct!**Question 16****0 / 1 pts**

In ThumbnailDownloader<H>, what does the requestMap do?

- ☒ maps a url (String) to an object that will hold the photo (H)
- ☐ maps an object that holds the photo (H) to the photo itself (Bitmap)
- ☐ maps an object that holds the photo (H) to a url (String)
- ☐ maps a photo (Bitmap) to an object that will hold it (H)

ou Answered**orrect Answer**

Question 17**1 / 1 pts**

In the final Gallery application, when a photo is clicked in the gallery view, which of the following occurs?

- ☐ the gallery fragment is replaced by map fragment in the current activity
- ☐ the gallery fragment is replaced by a page view fragment in the current activity
- ☐ a new activity is created, and it holds a web-view
- ☒ a new activity is created, and it holds page view fragment (which in turn holds a web-view)

Correct!**Question 18****1 / 1 pts**

In the final Gallery application, which method in PhotoMapFragment queues a thumbnail for download?

- ☐ onViewCreated
- ☐ onMarkerClick
- ☐ onCreate
- ☒ updateUI

Correct!

Quiz Score: **15** out of 18