Final Exam - Module B

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

Questions 18

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	23 minutes	18 out of 18

Score for this quiz: 18 out of 18

Submitted May 2 at 6:57pm

This attempt took 23 minutes.

1 pts

Question 2 1/1 pts

	As a rule, only your application can read and write to files that it stores in private storage in the device's filesystem.
Correct!	True
	○ False

Question 3	1 / 1 pts
Every Android application *must* have this file with this exact nar	me:
activity_main.xml	
AndroidManifest.xml	
O Application.apk	
○ MainActivity.java	
	Every Android application *must* have this file with this exact nare activity_main.xml AndroidManifest.xml Application.apk

	Question 4	1 / 1 pts
	The proximity sensor in your phone uses	
Correct!	infrared: it emits a certain amount of IR light and sees how much coback	omes
	microwave radar: use doppler effect - the return echo from a movin will be frequency shifted	g object

	nfrared (no emitter): it detects some normal state and then detects when something moves in front of it
_ ultrasoni	sound waves - emits a sound and listens for echo to determine
range	

Android Studio can automatically convert Java code to Kotlin code. Correct! False

	Question 6	1 / 1 pts
	Which of the following is NOT something provided by a data cla	ss?
	a copy method	
	an auto-generated toString method	
	auto-generated equals and hashCode methods	
Correct!	automatic conversion to and from JSON	

	Question 7	1 / 1 pts
	Which of the following lifecycle methods belongs to a fragment bactivity?	out not an
	onCreate	
Correct!	onCreateView	
	○ onPause	
	onStop	

	Question 8	1 / 1 pts
	What custom classes should you create for a RecyclerView?	
	a custom RecyclerView and a ViewHolder	
	an Adapter and a custom RecyclerView	
Correct!	an Adapter and a ViewHolder	
	o you only need to write a custom RecyclerView	

Question 9	1 / 1 pts
In the Room component library, what does a @DAO class cont	tain?
methods for constructing the database	

Correct!

Correct!

Correct!

methods used for accessing the database
methods used to convert to and from Kotlin and SQL
the database holder

Which of the following is NOT true about LiveData? LiveData objects are aware of lifecycle status changes LiveData objects hold data LiveData objects notify their observers when data has changed LiveData observers are typically declared in the Repository

Question 11 Consider the following code from CriminalIntent. var crimeLiveData: LiveData<Crime?> = Transformations.switchMap(crimeIdLiveData) { crimeId -> crimeRepository.getCrime(crimeId) } When does crimeLiveData get updated? when crimeIdLiveData is assigned to when crimeIdLiveData.value is assigned to

when	crimeLiveData.value is assigned to	
when	getCrime is called	

	Question 12	1 / 1 pts
	Consider the following code from the CriminalIntent application.	
	<pre>interface Callbacks { fun onCrimeSelected(crimeId: UUID) }</pre>	
	Which class declares this interface?	
	 CrimeActivity 	
	 CrimeFragment 	
Correct!	CrimeListFragment	
	○ crimeRepository	

	Question 13	1 / 1 pts
Correct!	In the BNR PhotoGallery application, where is the Flickr API key	stored?
	AndroidManifest.xml	
	FlickrApi	
	○ FlickrFetchr	
	strings.xml	

1 / 1 pts **Question 14** In the PhotoGallery application from BNR, the fetchPhotos method in FlickrFetchr returns an object of type LiveData<List<GalleryItem>>. In our final Gallery application (after we cache the gallery item data), what does fetchPhotos return? It has no return type. It updates the gallery items in the responseLiveData field, whose type is LiveData<List<GalleryItem>> Correct! It has no return type. It updates the gallery items in the responseLiveData field, whose type is MutableLiveData<List<GalleryItem>> It returns an object of type MutableLiveData<List<GalleryItem>> It still returns an object of type LiveData<List<GalleryItem>>

In the Gallery application, the @WorkerThread annotation for the fetchPhoto function indicates that it should only be called on a background thread (not the UI thread). Correct! True False

ThumbnailDownloader is a generic class. In the completed Gallery application, two kinds of thumbnail downloaders are created - one in the PhotoGalleryFragment and one in the PhotoMapFragment. Which type arguments are used in each case? Both PhotoGalleryFragment and PhotoMapFragment use PhotoHolder Both PhotoGalleryFragment and PhotoMapFragment use Target PhotoGalleryFragment uses PhotoHolder, and PhotoMapFragment uses Marker

	Question 17	1 / 1 pts
	Which of the following is NOT a kind resource you need to modic create when you are implementing bottom navigation (as we did Gallery app)?	
	a layout resource (for the activity)	
	a menu resource	
	a navigation resource	
Correct!	a transition resource	

	Question 18 1 / 1 pts	S	
	In the Gallery application, what layout *manager* is used by the recycler view?		
	○ constraint layout		
	frame layout		
Correct!	grid layout		
	○ linear layout		

Quiz Score: 18 out of 18