

Feedback — Week 6 Quiz

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You submitted this quiz on **Wed 25 Feb 2015 7:46 PM PST**. You got a score of **10.00** out of **10.00**.

Note: Quiz questions 9-14 are based on the optional lectures. These questions will be graded when you submit the quiz. However, in our calculations of your final grade you will be given credit for having answered these questions correctly.

Question 1

What types of User Notifications are provided by Android?

Your Answer		Score	Explanation
<input type="checkbox"/> Fragments.	✓	0.20	
<input checked="" type="checkbox"/> Toast Messages.	✓	0.20	
<input checked="" type="checkbox"/> Dialogs.	✓	0.20	
<input type="checkbox"/> Tabs.	✓	0.20	
<input checked="" type="checkbox"/> Notification Area Notifications.	✓	0.20	
Total		1.00 / 1.00	

Question 2

(True or False) Toast messages are used to get information from the user?

Your Answer	Score	Explanation

<input type="radio"/> True.		
<input checked="" type="radio"/> False.	✓	1.00
Total		1.00 / 1.00

Question 3

Why do Notification Area Notifications use PendingIntents?

Your Answer	Score	Explanation
<input type="radio"/> The underlying Intent has a reference to the sending component which can lead to memory leaks.		
<input checked="" type="radio"/> The underlying Intent will be used by the system, rather than by the component that created it.	✓ 1.00	
<input type="radio"/> To allow Extra data to be provided to the Activity that will be started.		
<input type="radio"/> The PendingIntent can add a listener to the underlying Intent		
Total	1.00 / 1.00	

Question 4

Which of the following capture why it is preferable to notify the user with a Notification Area Notification, rather than with a Dialog, or vice versa.

Your Answer	Score	Explanation
<input type="checkbox"/> Use a Dialog (DialogFragment) when using a large screen device such as a tablet.	✓ 0.25	
<input checked="" type="checkbox"/> Use a Notification Area Notification when the user should be notified outside of any currently running application.	✓ 0.25	

<input checked="" type="checkbox"/> Use a Dialog when the application needs to get user feedback.	✓	0.25
<input type="checkbox"/> Use a Notification Area Notification to prevent onPause() from being called.	✓	0.25
Total		1.00 / 1.00

Question 5

When should your application send broadcasts using the LocalBroadcastManager class, rather than by using the Context class or vice versa?

Your Answer	Score	Explanation
<input checked="" type="checkbox"/> Use the Context class when the broadcast must be sticky.	✓ 0.25	
<input checked="" type="checkbox"/> Use the LocalBroadcastManager to broadcast Intents that will only be received within the same application the sends the broadcasts.	✓ 0.25	
<input checked="" type="checkbox"/> Use the LocalBroadcastManager to register BroadcastReceivers that don't want to receive broadcasts from outside the application.	✓ 0.25	
<input type="checkbox"/> Use the Context class to improve application reliability.	✓ 0.25	
Total		1.00 / 1.00

Question 6

If your application only wants to receive certain broadcasts while it is active and in the foreground, which of the following scenarios might it implement?

Your Answer	Score	Explanation
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☐ Dynamically register its BroadcastReceivers with low priority. Then use abortBroadcast() at runtime to prevent delivery.

☒ Dynamically register its BroadcastReceivers in onResume() and unregister them in onPause(). ✓ 1.00

☐ Load the Intents through a menu or ActionBar action.

☐ Statically register its BroadcastReceivers with low priority.

Total	1.00 /
	1.00

Question 7

Which of the following statements capture how Alarms are different from other Android capabilities?

Your Answer	Score	Explanation
<input type="checkbox"/> Handlers cannot be used to send Intents at a future point in time.	✓ 0.33	
<input checked="" type="checkbox"/> Notification Area Notifications inform users about events without interrupting their work, while Alarms don't directly inform users.	✓ 0.33	
<input checked="" type="checkbox"/> Alarms are fired at a particular time in the future. Regular Intent Broadcasts are handled at the time the Intent is broadcast.	✓ 0.33	
Total	1.00 /	1.00

Question 8

How does an application get access to the AlarmManager?

Your Answer	Score	Explanation
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- ☐ Put a <manager> tag in the application's AndroidManifest.xml file.
- ☐ Use the AlarmManager.newInstance() method to retrieve the singleton instance of the AlarmManager.
- ☒ Use the Context.getSystemService() method to retrieve a reference to the AlarmManager service. ✓ 1.00
- ☐ Use the AlarmManager() constructor to create an instance of the AlarmManager.

Total	1.00 /	1.00
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Question 9

When setting alarms, it's often better to use the ELAPSED_REALTIME or ELAPSED_REALTIME_WAKEUP alarm types, rather than RTC or RTC_WAKEUP alarm types. Which of the following statements explains why RTC and RTC_WAKEUP alarms might not be the best approach in some cases?

Your Answer	Score	Explanation
<input type="checkbox"/> ELAPSED_REALTIME Alarms can fire when the CPU is in sleep mode.	✓ 0.25	
<input checked="" type="checkbox"/> If the network resets the system clock, RTC Alarms may fire at unpredictable times.	✓ 0.25	
<input checked="" type="checkbox"/> If the user manually changes the time zone or modifies the system clock, RTC Alarms may fire at unpredictable times.	✓ 0.25	
<input type="checkbox"/> It doesn't really matter, because you can easily convert from one time interpretation to the other.	✓ 0.25	
Total	1.00 /	1.00

Question 10

For API targets prior to 19: The `setInexactRepeating()` method is intended to give Android flexibility in the exact timing of alarms. Assuming that `mAlarmManager` is a valid reference to the `AlarmManager` and that `pi` is a valid reference to a `PendingIntent`, why doesn't the following code snippet (modified from the `AlarmCreate` application shown in this lesson) accomplish that purpose?

```
mAlarmManager.setInexactRepeating(AlarmManager.ELAPSED_REALTIME,  
SystemClock.elapsedRealtime(),15000, pi);
```

Your Answer	Score	Explanation
<input type="radio"/> <code>setInexactRepeating()</code> requires a time interval of 60000 or greater.		
<input checked="" type="radio"/> <code>setInexactRepeating()</code> requires a specific interval constant, such as <code>INTERVAL_FIFTEEN_MINUTES</code> .	✓ 1.00	
<input type="radio"/> <code>setInexactRepeating()</code> requires an alarm type of <code>RTC</code> or <code>RTC_WAKEUP</code> .		
<input type="radio"/> <code>setInexactRepeating()</code> is a method of the <code>Alarm</code> class.		
Total	1.00 / 1.00	