

Feedback — Week 5 Quiz

[Help](#)

You submitted this quiz on **Wed 17 Dec 2014 11:20 PM PST**. You got a score of **10.10** out of **14.00**. However, you will not get credit for it, since it was submitted past the deadline.

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 checked="" type="checkbox"/> Notification Area Notifications. | ✓ | 0.20 | |
| <input type="checkbox"/> Dialogs. | ✗ | 0.00 | |
| <input type="checkbox"/> Tabs. | ✓ | 0.20 | |
| <input type="checkbox"/> Fragments. | ✓ | 0.20 | |
| <input type="checkbox"/> Toast Messages. | ✗ | 0.00 | |
| Total | | 0.60 / 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 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"/> The underlying Intent has a reference to the sending component which can lead to memory leaks. | | |
| <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 checked="" type="checkbox"/> Use a Notification Area Notification to prevent onPause() from being called. | ✓ 0.25 | |
| <input type="checkbox"/> Use a Dialog (DialogFragment) when using a large screen | ✓ 0.25 | |

device such as a tablet.

| | | |
|---|---|------|
| <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 |
|---|---|------|

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| 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 |
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|-------------|-------|-------------|

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|---|---|------|
| <input type="checkbox"/> Use the Context class when the broadcast must be sticky. | ✗ | 0.00 |
|---|---|------|

| | | |
|--|---|------|
| <input type="checkbox"/> Use the LocalBroadcastManager to broadcast Intents that will only be received within the same application the sends the broadcasts. | ✗ | 0.00 |
|--|---|------|

| | | |
|--|---|------|
| <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 |
|--|---|------|

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| Total | | 0.50 / 1.00 |
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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 |
|-------------|-------|-------------|
|-------------|-------|-------------|

☐ Load the Intents through a menu or ActionBar action.

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

☐ Statically register its BroadcastReceivers with low priority.

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

Total 1.00 / 1.00

Question 7

Which of the following methods is guaranteed to run on the application's UI Thread?

| Your Answer | | Score | Explanation |
|---|---|-------------|-------------|
| <input type="checkbox"/> AsyncTask.doInBackground(). | ✓ | 0.25 | |
| <input checked="" type="checkbox"/> View.post(). | ✓ | 0.25 | |
| <input checked="" type="checkbox"/> Activity.runOnUiThread(). | ✓ | 0.25 | |
| <input checked="" type="checkbox"/> Handler.sendMessage(). | ✗ | 0.00 | |
| Total | | 0.75 / 1.00 | |

Question 8

Which of the following statements correctly capture why an application that uses a Handler, might send Messages to the Handler, rather than post Runnables to it, or vice versa?

| Your Answer | Score | Explanation |
|--|--------|-------------|
| <input type="checkbox"/> Runnables are used when the Sender implements the action to be taken. | ✗ 0.00 | |

| | | |
|--|---|----------------|
| <input type="checkbox"/> Runnables are less efficient than messages. | ✓ | 0.25 |
| <input type="checkbox"/> Messages are used when the Handler implements the Message response. | ✗ | 0.00 |
| <input checked="" type="checkbox"/> Messages can take parameters. Runnables can't. | ✗ | 0.00 |
| Total | | 0.25 / 1.00 |

Question 9

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

| Your Answer | Score | Explanation |
|--|----------------|-------------|
| <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 type="checkbox"/> Handlers cannot be used to send Intents at a future point in time. | ✓ 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 10

How does an application get access to the AlarmManager?

| Your Answer | Score | Explanation |
|---|-------|-------------|
| <input type="radio"/> Use the AlarmManager() constructor to create an instance of the AlarmManager. | | |

☒ Use the `AlarmManager.newInstance()` method to retrieve the singleton instance of the `AlarmManager`. ✖ 0.00

☐ Put a `<manager>` tag in the application's `AndroidManifest.xml` file.

☐ Use the `Context.getSystemService()` method to retrieve a reference to the `AlarmManager` service.

| | |
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| Total | 0.00 / 1.00 |
|-------|----------------|

Question 11

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 checked="" type="checkbox"/> If the network resets the system clock, <code>RTC</code> 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 | |
|--|--------|--|

| | | |
|---|--------|--|
| <input type="checkbox"/> <code>ELAPSED_REALTIME</code> Alarms can fire when the CPU is in sleep mode. | ✔ 0.25 | |
|---|--------|--|

| | | |
|---|--------|--|
| <input checked="" type="checkbox"/> If the user manually changes the time zone or modifies the system clock, <code>RTC</code> Alarms may fire at unpredictable times. | ✔ 0.25 | |
|---|--------|--|

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| Total | 1.00 / 1.00 |
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Question 12

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 type="radio"/> <code>setInexactRepeating()</code> requires a specific interval constant, such as <code>INTERVAL_FIFTEEN_MINUTES</code> . | | |
| <input checked="" type="radio"/> <code>setInexactRepeating()</code> requires an alarm type of <code>RTC</code> or <code>RTC_WAKEUP</code> . | ✖ 0.00 | |
| <input type="radio"/> <code>setInexactRepeating()</code> is a method of the <code>Alarm</code> class. | | |
| Total | 0.00 / 1.00 | |

Question 13

Android supports several HTTP clients. Which one of the following HTTP clients is the Android team's preferred HTTP client? See <http://android-developers.blogspot.com/2011/09/androids-http-clients.html> for more information.

| Your Answer | Score | Explanation |
|---|-------------|-------------|
| <input checked="" type="radio"/> <code>HttpURLConnection</code> . | ✔ 1.00 | |
| <input type="radio"/> <code>AndroidHttpClient</code> . | | |
| <input type="radio"/> <code>DefaultHttpClient</code> . | | |
| Total | 1.00 / 1.00 | |

Question 14

Which of the following statements are generally true about DOM parsers?

| Your Answer | Score | Explanation |
|--|-------------|-------------|
| <input type="checkbox"/> DOM parsers use a streaming model in which the parser calls back into the application when specific elements are parsed. | ✓ 0.25 | |
| <input type="checkbox"/> DOM parsers provide iterators that pull XML content into an application on demand. | ✓ 0.25 | |
| <input checked="" type="checkbox"/> DOM parsers tend to use more memory than the other kinds of Parsers we discussed in this lesson. | ✓ 0.25 | |
| <input checked="" type="checkbox"/> DOM parsers convert an XML document into a tree structure, which can make it easier to do whole document analyses. | ✓ 0.25 | |
| Total | 1.00 / 1.00 | |