109590003_HW11-1

Question 1

What is a system broadcast?

- A message that your app sends and receives when an event of interest occurs in the app.
- A message that is sent from an app to a different component of the same app.
- A message that the Android system sends when a system event occurs.
- A message that the Android system receives when an event of interest occurs in your app.

A

- A message that the Android system sends when a system event occurs.

Question 2

Which pair of methods do you use to register and unregister your broadcast receiver dynamically?

- `registerBroadcast()` and `unRegisterBroadcast()`.
- `registerComponentCallbacks()` and `unRegisterComponentCallbacks()`.
- `registerBroadcastReceiver()` and `unRegisterBroadcastReceiver()`.
- `registerReceiver()` and `unRegisterReceiver()`.

A

- `registerReceiver()` and `unRegisterReceiver()`.

Question 3

Which of the following are true?

- Broadcast receivers can't see or capture the intents used to start an activity.
- Using a broadcast intent, you can't find or start an activity.
- You can use a broadcast intent to start an activity.
- You can receive the intent used to start activity in your broadcast receiver.

A

- Broadcast receivers can't see or capture the intents used to start an activity.

Question 4

Which class is used to mitigate the security risks of broadcast receivers when the broadcasts are not cross-application (that is, when broadcasts are sent and received by the same app)?

- `SecureBroadcast`
- `LocalBroadcastManager`
- `OrderedBroadcast`
- `SecureBroadcastManager`

A

- `LocalBroadcastManager`

109590003_HW11-2

Question 1

Select all that are true for notification channels:

- You use notification channels to display notifications to the user in the device status bar.
- You use notification channels to group multiple notifications so that the user can control the notifications' behavior.
- Notification channels are available in older devices, those running Android 7.0 Nougat (API 24) and lower.
- Notification channels are not yet available in the Android Support Library package.

A

- You use notification channels to display notifications to the user in the device status bar.
- You use notification channels to group multiple notifications so that the user can control the notifications' behavior.
- Notification channels are not yet available in the Android Support Library package.

Question 2

Which API do you use to show a notification in the notification drawer and in the device's status bar?

- `Notification.notify()`
- `NotificationManager.notify()`
- `NotificationCompact.notify()`
- `NotificationCompat.Builder.notify()`

A

- `NotificationManager.notify()`

Question 3

Which component is *not* needed when you add a notification action?

- Icon that represents the action
- Title that describes the action
- Click listener for the action button click event.
- `PendingIntent` that's sent when the user taps the action button.

A

- Click listener for the action button click event.

Question 4

Which API do you use to add an action button to a notification?

- `NotificationCompat.addActionButton()`
- `NotificationCompat.Builder.addAction()`
- `Notification.Builder.addActionButton()`
- `NotificationManager.addAction()`

A

- `NotificationCompat.Builder.addAction()`

Question 5

Suppose that you create an app that downloads a work of art on the user's device every day. Once the day's image is available, the app shows a notification to the user, and the user can download the image or skip the download. What `PendingIntent` method would you use to start a service to download the image?

- `Activity.startService()`
- `PendingIntent.getBroadcast()`
- `PendingIntent.getActivity()`
- `PendingIntent.getService()`

A

- `PendingIntent.getService()`