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TO PASS 80% or higher

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Module 3 Quiz

LATEST SUBMISSION GRADE

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1. Which of the following correctly describe what an intent is in Android (choose all that apply):

4 / 4 points

☒ A message that describes an action to perform or an event that has occurred

✓ **Correct**
from M3-L1-pt1

☐ A message that provides a screen within which users can interact in order to do something

☐ An event handler that responds to system-side broadcast announcements

☐ A component that runs in the background to perform long-running operations or access remote resources

2. Which of the following correctly describe benefits that an intent provides to apps in Android (choose all that apply):

4 / 4 points

☐ An intent defines the smallest unit of execution for sequences of programmed instructions

☐ An intent manages secure access to structured data

☒ An intent simplifies app development since existing components can be reused as "black-boxes"

✓ **Correct**
from M3-L1-pt1

☒ An intent is the "glue" that helps integrate Android apps

✓ **Correct**
from M3-L1-pt1

3. Which of the following correctly describe what is meant by an intent being a "passive" data structure (choose all that apply):

4 / 4 points

☐ An intent only contains public fields

☒ An intent just consists of fields and field access/mutator methods

✓ **Correct**
from M3-L1-pt1

☐ An intent only contains static getter/setter methods

☐ An intent cannot be used in a concurrent program

4. Which of the following correctly describe what is meant by an intent enabling "late runtime binding" of apps to components (choose all that apply):

4 / 4 points

☐ App components started by intents are slow to launch

☒ App components can be discovered and used at runtime vs compile-time

✓ **Correct**
from M3-L1-pt2

☐ App components started by intents must run in separate processes

☐ App components can be discovered and used at compile-time vs. runtime

5. Which of the following correctly describe the benefits of runtime discovery of app component (choose all that apply):

4 / 4 points

☒ It enables apps with loosely-coupled components that can be extended and integrated dynamically

✓ **Correct**
M3-L1-pt2

- ☐ It ensures that developers know at compile-time which component implementations their app will use
- ☒ It enables systematic reuse that creates apps from predefined software components

✓ **Correct**
M3-L1-pt2

- ☐ It enhances the security and robustness of apps by disallowing trojan horses

6. Which of the following are elements in an Android intent (choose all that apply):

8 / 8 points

- ☐ URL
- ☒ Data

✓ **Correct**
from M3-L2-pt1

- ☐ Stack
- ☒ Extras

✓ **Correct**
from M3-L2-pt1

- ☐ Service
- ☒ Name

✓ **Correct**
from M3-L2-pt1

- ☒ Flags

✓ **Correct**
from M3-L2-pt1

- ☒ Action

✓ **Correct**
from M3-L2-pt1

7. Which of the following statements are true for an "implicit" intent (choose all that apply):

4 / 4 points

- ☐ The category must not be specified
- ☐ The data must not be specified
- ☒ The name must not be specified

✓ **Correct**
from M3-L2-pt1

- ☐ The action must not be specified

8. Which of the following are true statements about implicit and explicit intent (choose all that apply):

6 / 6 points

- ☒ Explicit intents are particularly important when starting or binding to services

✓ **Correct**
from M3-L2-pt2 and M3-L3-pt2

- ☒ Android delivers an explicit intent to a target component without consulting filters in the AndroidManifest.xml file

✓ **Correct**
from M3-L2-pt2 and M3-L3-pt2

- ☐ Implicit intents are used to "tightly couple" activity and broadcast receiver components
- ☒ Android delivers an implicit intent to a target component only if it matches one of its intent filters in the AndroidManifest.xml file

✓ **Correct**
from M3-L2-pt2 and M3-L3-pt2

- ☐ Explicit intents are typically used to interact with components residing in other apps
- ☒ Implicit intents are typically used to interact with components residing in other apps

✓ **Correct**
from M3-L2-pt2 and M3-L3-pt2

9. Which of the following elements must match during implicit intent filtering for an intent to be delivered to a target component (choose all that apply):

6 / 6 points

☒ Category

✓ **Correct**
from M3-L3-pt2

☐ Name

☒ Action

✓ **Correct**
from M3-L3-pt2

☐ Extras

☐ Flags

☒ Data

✓ **Correct**
from M3-L3-pt2

10. Which of the following correctly describe what Android's IntentService does (choose all that apply):

4 / 4 points

☐ It is a component that provides a screen within which users can interact in order to do something

☒ It expresses requests as intents & passes them between threads and/or processes

✓ **Correct**
from M3-L3 & M3-L4

☐ It is an event handler that responds to system-side broadcast announcement

☒ It's a framework that handles asynchronous requests on demand

✓ **Correct**
from M3-L3 & M3-L4