

**AD0-E103.44q**

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Passing Score: 800  
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**AD0-E103**



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## Exam A

### QUESTION 1

A developer identifies that some requests for the page `/content/sampleproject/page.html` take longer than other requests for the same page. Refer to the `$DOCROOT/content/sampleproject` directory below.

```
[user@group /opt/dispatcher/cache/content/sampleproject ]$ ls -la
total 2
drwxr-xr-x. 5 apache apache 4096 Feb 11 11:41 .
drwxr-xr-x. 3 apache apache 4096 Nov 29 16:07 ..
drwxr-xr-x. 4 apache apache 4096 Feb 7 03:21 page.html
-rw-r--r--. 1 apache apache 0 Feb 7 03:19 .stat
```

The `dispatcher.log` file contains the following lines:

```
[Wed Feb 13 13:14:04 2012] [D] [1376(1532)] checking [/libs/cq/security/userinfo/json]
[Wed Feb 13 13:14:04 2012] [D] [1376(1532)] Caching disabled due to query string: tracking_id=1350373444
[Wed Feb 13 13:14:04 2012] [D] [1376(1532)] cache-action for [/libs/cq/security/userinfo/json]: NONE
```

How should the developer make sure that the page is always cached?



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A. Modify the `dispatcher.any` file to contain the following lines:

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```
/filter
{
...
/0023 { /type "allow" /url "/content/**/*.html" /params "tracking_id"}
...
}
```

B. Modify the dispatcher.any file to contain the following lines:

```
/rules
{
...
/0000 { /glob "*" /type "allow" /params "tracking_id"}
...
}
```

C. Modify the dispatcher.any file to contain the following lines:

```
/filter
{
...
/0023 { /type "allow" /url "/content/**/*.html?tracking_id=*"}
...
}
```

D. Modify the dispatcher.any file to contain the following lines:

```
/ignoreUrlParams
{
...
/0002 { /glob "tracking_id"/type "allow" }
...
}
```

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## QUESTION 2

A developer creates a Sling Servlet. The Sling Servlet is bound to a path (/service/sling/sample). Refer to the resulting code below.

```
@Component (immediate=true,service = {Servlet.class})
@SlingServletPaths(value = { "/service/sling/sample" })
```

What should the developer do to make the servlet access controlled using the default ACLs?

- A. Use @SlingServletResourceTypes instead of @SlingServletPaths.
- B. Modify @SlingServletPaths(value = { "/bin/sling/sample" }).
- C. Add @SlingServletName(servletName = "AccessControlServlet") annotation.
- D. Add @SlingServletPrefix(value = "/apps") annotation.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://sling.apache.org/documentation/the-sling-engine/servlets.html#caveats-when-binding-servlets-by-path>

### QUESTION 3

A developer wants to extend AEM Core Components to create a custom Carousel Component.

How should the developer extend the Core Components?

- A. Make changes to the original component and assign a component group.
- B. Use the `sling:resourceSuperType` property to point to the core component.
- C. Use the `sling:resourceType` property to point to the core component.
- D. Copy the Core Carousel component to `/apps/<project>` folder.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 4

A developer is installing a content package with the package manager. The developer needs to restrict the approximate number of nodes in a batch that is saved to persistent storage in one transaction.

How should the developer modify the number of transient nodes to be triggered until automatic saving?

- A. AEM instances automatically modify the number of transient nodes based on the load balancing.
- B. Modify the export package manifest header and copy the content package to AEM installation folder.
- C. Select the option `MergePreserve` for the `Access Control Handling` drop-down in the **Install Package** dialog-box.
- D. Change the value of `Save Threshold` in the **Install Package** dialog-box.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 5

A developer needs to implement a service component that should be manually configured by operations to react on operational circumstances. The service component should NOT be active by default. The service has the properties `myservice.name` (one string value) and `myservice.stringValues` (a list of the string values) to be configured.

The developer needs to use OSGi Metatype annotations to make those properties configurable in the Apache Felix Web Console.

Which set of steps should the developer take to meet these requirements?

- A.
  1. For the class fields `myserviceName` and `myserviceStringValues`, add a `@AttributeDefinition` annotation each with names set to `myservice.name` and `myservice.stringValues` respectively.
  2. Use the `@Component` annotation with `configurationFactory = true` on the service component class.
  3. Use the `@Service` service component class.
  4. Use the `activate` method of the service component class to get the configuration annotation interface class injected.
- B.
  1. Create an annotation interface as inner class of the service component and annotate it with `@ObjectClassDefinition`.
  2. Apply `@AttributeDefinition` for the methods `myservice.name` and `myservice.stringValues`.
  3. Use the `@Component` annotation with `configurationPolicy = ConfigurationPolicy.REQUIRE` on the service component.
  4. Use the `@Designate` annotation to link the service component to the created configuration annotation interface.
  5. Use the `activate` method of the service component class to get the configuration annotation interface class injected.
- C.
  1. Create an annotation interface as inner class of the service component and annotate it with `@ObjectClassDefinition`.
  2. Apply `@AttributeDefinition` for the methods `myservice_name` and `myservice_stringValues`.
  3. Use the `@Component` annotation with `configurationPolicy = ConfigurationPolicy.REQUIRE` on the service component.
  4. Use the `@Designate` annotation to link the service component to the created configuration annotation interface.
  5. Use the `activate` method of the service component class to get the configuration annotation interface class injected.
- D.
  1. For the class fields `myserviceName` and `myserviceStringValues`, add a `@Property` annotation each with names set to `myservice.name` and `myservice.stringValues` respectively.
  2. Use the `@Component` annotation with `configurationFactory = true` on the service component class.
  3. Use the `@Service` service component class.
  4. The configuration is automatically injected into the field by the service component runtime.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### QUESTION 6

A developer creates Editable Templates based on a custom Page component. The developer wants to leverage the Style System within the Editable Templates to allow authors to switch between the Dark and Light Theme. The Style System dialog is NOT enabled for the site.

What should the developer do to resolve this issue?

- A. Define Style Definitions using Page Policy dialog on Editable Template.
- B. Create two new client libraries with a dark and light theme and map them to the Page component.

- C. Set the `sling:resourceSuperType` property to `core/wcm/components/page/v2/page` on the Page component.
- D. Create a new dialog for the custom Page components.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://medium.com/adobetech/using-aem-style-system-to-increase-reusability-of-components-8177c5b65c9e>

### QUESTION 7

An online insurance company website has user-generated content that must be replicated in all publish instances.

What action should the developer take to achieve this?

- A. Configure the dispatcher flush agent in publish instance.
- B. Configure reverse replication agents for the author.
- C. Configure the replication agent in the publish instances.
- D. Disable static agent in the author instance.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://helpx.adobe.com/fi/experience-manager/6-4/sites/deploying/using/replication.html>

### QUESTION 8

A developer needs to analyze log messages for custom Java application. The developer writes the following Java class:

```
package com.abc.xyz;

import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

public class MyClass {
    private static final Logger logger = LoggerFactory.getLogger(this.getClass());

    public void customMethod() {
        logger.debug("A custom log message");
    }
}
```

The developer creates a custom log named custom.log with a debug level in OSGi web console for Java package com.abc.xyz.

Where should the developer look in the OSGi web console to view the above message?

- A. OSGi -> Log Service and click logs/custom.log
- B. Sling-> Log Support and click logs/custom.log
- C. Sling -> Metrics and click logs/custom.log
- D. AEM -> Log Support and click logs/custom.log

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 9**

A developer must create a workflow step that assigns a 'WorkItem' to the appropriate person based on who has the least amount work to do. The group that must perform the action is configured into the workflow.

Which non-deprecated interface should the Java implementation class use to perform the assignment?

- A. com.adobe.granite.workflow.exec.ParticipantStepChooser
- B. com.day.cq.workflow.exec.ParticipantChooser
- C. com.day.cq.workflow.exec.WorkItem
- D. com.adobe.granite.workflow.exec.WorkflowData

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.adobe.com/content/help/en/experience-manager-64/developing/extending-aem/extending-workflows/workflows-step-ref.html>

**QUESTION 10**

A developer needs to create an OSGi service to run on an Author instance and send out newsletters at periodic intervals. Intervals should be customized using the Web Console Configuration. Concurrent execution must be prevented.

Which code snippet should a developer use to achieve?

A.

```
@Component(service = Runnable.class)
@Designate(ocd = SendEmailNewsletterImpl.Config.class)
public class SendEmailNewsletterImpl implements Runnable {

    @ObjectClassDefinition(name = "A simple cleanup task", description =
"Simple demo for cron-job like task with properties")
    public static @interface Config {

        @AttributeDefinition(name = "Cron-job expression")
String scheduler_expression() default "*/*/*/*?";

        @AttributeDefinition(name = "Configure task", description =
"Whether or not to schedule this task concurrently")
boolean scheduler_concurrent() default false;

        @AttributeDefinition(name = "A parameter", description =
"Can be configured in /system/console/configMgr")
String myParameter() default "";
    }
}
```

B.

```
@Component (immediate=true,service = Servlet.class, property = {Constants.SERVICE_DESCRIPTION + "=Send NewsLetter Sling Servlet",
                    "sling.servlet.method=" + HttpConstants.METHOD_PUT,
                    "sling.servlet.concurrent=" + "false",
                    "sling.servlet.interval=" + "*/30****?"
                })
public class SendNewsletterServlet extends SlingSafeMethodsServlet {

    ....
}
```

C.

```
@Component (immediate=true,
enabled=true
service = Importer.class,
property = {
                    Importer.concurrent + "=false",
                    Importer.interval + "*/30****?"
                }
)
public class SendEmailNewsletterImpl implements Importer {

    ....
}
```

D.

```
@Component(service = EventHandler.class,
            immediate = true,
            property = {
                Constants.SERVICE_DESCRIPTION + "=Send NewsLetter",
                EventConstants.EVENT_TOPIC + "=org/apache/sling/api/
resource/Resource/*",
                EventConstants.interval + "=
*/30****?"
            })
public class SendNewsletterListener implements EventHandler {

    boolean isConcurrent = false;
    String interval = "*/30****?"
    public void handleEvent(final Event event) {
        event.send(isConcurrent, event.getTopic(),interval);
    }
}
```

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 11

From which AEM Web Console should a developer access and download full AEM Log Files?

A. Web Console -> System Information

B. Status -> Log files

- C. OSGI -> Sing Log Service
- D. AEM -> Log files

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://helpx.adobe.com/aem-forms/kb/getting-log-files-directly-from-aem.html>

### QUESTION 12

A developer needs to create a new component called "Component A". Component A must show a list of other components that all have a resource type of existing "Component B". Component A must render this list of tiles for each Component B where the tile rendering is different from the default one. The list of rendered tiles must be reusable by future new components.

How should the developer implement this functionality?

- A. Create a script for tile rendering in Component B and use `data-sly-resource` attribute with a Sling selector in Component A to render the tile.
- B. Component A overlays Component B and overwrites the base renderer to facilitate the tiles.
- C. Component A inherits from Component B and overwrites the base renderer to facilitate the tiles.
- D. Component A calls the HTL of Component B directly using a `data-sly-include` attribute.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 13

For each CRX node in the hierarchy, which actions can be configured using the user admin interface?

- A. Read, Modify, Create, Delete, Read ACL, Edit ACL, Replicate
- B. Read, Write, Read ACL, Edit ACL, Replicate
- C. Read, Write, Delete, Edit ACL, Replicate
- D. Read, Modify, Create, Delete, Read ACL, Edit ACL

**Correct Answer:** A

**Section:** (none)

## Explanation

### Explanation/Reference:

Reference: <https://forums.adobe.com/thread/2323098>

### QUESTION 14

An application runs specific license checks against certain DAM assets every day. It should send an email to a configured list if it finds warnings, and mark the asset accordingly. A service component that uses the Apache Sling Scheduler Service is created. DAM assets that must NOT be used anymore are hidden using ACLs and the license check must re-check them.

How should a developer obtain a resource resolver that can read and update the DAM assets?

- A. Set up a cron job with curl calls with the admin user and use `request.getResource().getResourceResolver()`.
- B. Create a configuration line in PID `com.day.cq.security.ACLSetup` for the user that you obtain a session for via `ResourceResolverFactory.getResourceResolver(...)`.
- C. Configure the user admin in PID `org.apache.sling.serviceusermapping.impl.ServiceUserMapperImpl` as `user.default` and make sure the service user exists and has `jcr:read` and `jcr:write` permissions.
- D. Create a configuration for PID `org.apache.sling.serviceusermapping.impl.ServiceUserMapperImpl.amended-damaccess` that references a pre-created service user with r/w permissions and use `ResourceResolverFactory.getServiceResourceResolver(...)`.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 15

A custom AEM application is using the PageManager API.

What should a developer add to make the application compile and run correctly in AEM?

- A. a maven dependency to AEM uber-jar to the content package
- B. a maven dependency to bundle `cq-wcm-core` to the application bundle
- C. a maven dependency to AEM uber-jar to the application bundle
- D. a maven dependency to bundle `cq-wcm-api` to the content package

**Correct Answer:** A

**Section:** (none)

## Explanation

### Explanation/Reference:

Reference: <https://helpx.adobe.com/experience-manager/6-5/sites/developing/using/ht-projects-maven.html#ExperienceManagerAPIDependencies>

### QUESTION 16

How should a developer enable remote debugging of an AEM server without modifying the AEM start script?

- A. Enable the remote debugging service through the AEM Cloud Services menu.
- B. Rename the quickstart jar file to include the additional debug settings.
- C. Enable the remote debugging service through the AEM Web Console.
- D. Include an additional JVM parameter when starting AEM with `java -jar`.

**Correct Answer:** B

**Section:** (none)

## Explanation

### Explanation/Reference:

Reference: <http://aempodcast.com/2013/aem-resources/remote-debugging-aem-projects-using-intellij-or-netbeans/#.XeKArVpR2kw>

### QUESTION 17

A developer developed a workflow that makes a copy of every node created or modified under a certain path to a different one. The workflow launches but the nodes are not copied over.

Which two methods should the developer use to resolve this issue? (Choose two.)

- A. Go to Workflow Failures screen and check if any instances of the workflow are present.
- B. Go to Workflow instances screen and verify that the instance of the workflow is present and check its status.



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- C. Go to Package Manager screen and reinstall the bundle that contains the workflow so it restarts.
- D. Go to Workflow Models screen, then delete and recreate the workflow.
- E. Go to Workflow Launchers and create a new launcher for the workflow even if one already exists.

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 18**

A developer creates an AEM editable template that includes a Layout Container. When the developer creates a page using this template, the Layout Container placeholder does NOT appear.

What is causing this issue?

- A. The Layout Container does NOT have a policy.
- B. The page template has NOT been enabled.
- C. The page template has NOT been published.
- D. The Layout Container has NOT been unlocked.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 19**

Too many pages are invalidated in the dispatcher cache when a page is published.

What is most likely causing this issue in the dispatcher configuration?

- A. Sticky session are NOT configured properly, resulting in requests being delivered to the wrong server.
- B. The level of cache invalidation is NOT appropriate for the published content model.
- C. File globbing in the dispatcher configuration is NOT correct.
- D. The OS file system permissions are NOT properly configured.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://forums.adobe.com/thread/2652133>

**QUESTION 20**

The developer is presented with a component "Component A" which inherits from a component "Component B". The dialog of Component A on path `../cq:dialog/../../items` looks like:

```
+align
  - jcr:primaryType="nt:unstructured"
  - sling:resourceType="granite/ui/components/coral/foundation/form/select"
  - fieldLabel="Align Text"
  - name="./align"
```

The dialog of Component B on path `../cq:dialog/../../items` looks like:

```
+title
  - jcr:primaryType="nt:unstructured"
  - sling:resourceType="granite/ui/components/coral/foundation/form/textarea"
  - fieldLabel="Title"
  - name="./title"

+description
  - jcr:primaryType="nt:unstructured"
  - sling:resourceType="granite/ui/components/coral/foundation/form/textarea"
  - fieldLabel="Description"
  - name="./description"
```

The requirement for the dialog is that the “Align text” field is shown after the “Title” field.

What should the developer do without changing Component B?

- A. Move the align node from Component A to Component B and order them according the requirements.
- B. Extend Component B with the functionality of Component A.
- C. Add the property `slings:orderBefore="description"` to the align node.
- D. Move all nodes under the item node from Component B to Component A and order them according the requirements.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 21

A developer has a component *foobar* that consists of the files listed below:

script-a.js

```
"use strict";
use(function () {
    return "foo";
});
```

script-b.js

```
"use strict";
use(function () {
    return "";
});
```

foobar.html

```
<div data-sly-use.a="script-a.js" data-sly-use.b="script-b.js">
  <div data-sly-attribute.class="{a}" class="bar"></div>
  <div class="bar" data-sly-attribute.class="{a}"></div>
  <div class="foo" data-sly-attribute.class="{b}"></div>
  <div data-sly-attribute.class="{a}"></div>
</div>
```

What is the output when this component is rendered?

A.

```
<div>
  <div class="bar"></div>
  <div class="foo"></div>
  <div></div>
  <div></div>
</div>
```

B.

```
<div>
  <div class="bar"></div>
  <div class="foo"></div>
  <div></div>
  <div class=""></div>
</div>
```

C.

```
<div>
  <div class="foo"></div>
  <div class="foo"></div>
  <div class=""></div>
  <div class="foo"></div>
</div>
```

D.

```
<div>
  <div class="bar"></div>
  <div class="bar"></div>
  <div class="foo"></div>
  <div class=""></div>
</div>
```

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 22

A service component periodically retrieves content from an external REST interface and saves the information in JCR. The REST endpoint is configured via an OSGi service property. There is one URL for production (runmode `prod`) and another URL for all other environments.

How should a developer configure the OSGi service?

- A. Underneath `/apps/<project>/settings`, create the sub folders `global` and `prod` and node with name `<PID>.conf` each and configure the properties via node properties.
- B. Underneath `/config/<project>/settings`, create the sub folders `config.default` and `config.prod` and a file with the name `<PID>.config` each and list the properties as key value pairs in there.
- C. Underneath `/apps/<project>`, create the sub folders `config` and `config.prod` and a file with the name `<PID>.config` each and list the properties as key value pairs in there.
- D. Underneath `/config/<project>/settings`, create the sub folders `config` and `config.prod` and a file with the name `<PID>.config` each and list the properties as key value pairs in there.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 23

What is the artifact ID of the maven dependency that contains all core AEM APIs?

- A. core-jar
- B. api-jar
- C. aem-jar
- D. uber-jar

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.adobe.com/content/help/en/experience-manager-learn/getting-started-wknd-tutorial-develop/project-setup.html>

#### **QUESTION 24**

A developer creates the following code snippet to implement a simple polling importer to fetch stock prices from an external source:

JAVA

```
package com.adobe.training.core.core;
```

```
...
```

```
@Component(immediate=true,  
enabled=true,  
service = Importer.class,  
property = {
```

```
    Importer.SCHEME_PROPERTY + "=stock"
```

```
}
```

```
)
```

```
public class StockDataImporter implements Importer {
```

```
    private final Logger logger = LoggerFactory.getLogger(getClass());
```

```
    private final String SOURCE_URL = "https:// query.mystocks.com/v7/finance/quote?symbols=";
```

```
    private static final String LASTTRADE = "lastTrade";
```

```
    @Reference
```

```
    private SlingRepository repo;
```

```
    @Override
```

```
    public void importData(final String scheme, final String datasource, final Resource resource)
```

```
        throws ImportException {
```

```
        try {
```

```
            ParseJson parseJson = new ParseJson();
```

```
            String lastTrade = parseJson.loadJson(SOURCE_URL+datasource);
```

```
            writeToRepository(datasource, lastTrade, resource);
```

```
        }
```

```
    catch(Exception e) {
```

```
        logger.error("Exception" e);
```

```
    }
```

```
}
```

```
    private void writeToRepository(final String stockSymbol, final String lastTrade, final Resource resource) thro
```

```
RepositoryException {
```

```
    Session session= repo.loginService(null, repo.getDefaultWorkspace());
```

```
    Node parent = resource.adaptTo(Node.class);
```

```
    Node stockPageNode = JcrUtil.createPath(parent.getPath() + "/" + stockSymbol, "cq:Page",  
        session);
```

```
    Node lastTradeNode = JcrUtil.createPath(stockPageNode.getPath() + "/lastTrade", "nt:unstructured",
```

```
session);
```

```
        lastTradeNode.setProperty(LASTTRADE, lastTrade);
```

```
    session.save();
```

The polling importer needs to fetch stock prices for a specific stock symbol and needs to be triggered every 5 minutes.

Which node structure should the developer create in CRX to make sure that the code shown is executed successfully?

- A.
- ```
+/apps/system/config/com.adobe.training.core.core.StockDataImporter [sling:0
sgiConfig]
  -SCHEME_PROPERTY:"stock"
  -source: "ADBE"
  -target: "/content"
  -interval: 5
```
- B.
- ```
+/apps/system/config/com.adobe.training.core.core.StockDataImporter [sling:0
sgiConfig]
  -sling:resourceType: com.adobe.training.core.core.StockDataImporter
  -SCHEME_PROPERTY: "ADBE"
  -target: "/content"
  -interval: 5
```
- C.
- ```
+/etc/importers/polling/stock
  -jcr:mixinTypes: [ "cq:PollConfig" ]
  -source: "stock:ADBE"
  -interval: 300
  -target: "/content"
```
- D.
- ```
+/etc/importers/polling/stock
  -sling:resourceType: com.adobe.training.core.core.StockDataImporter
  -stock: "ADBE"
  -interval: 300
  -target: "/content"
```

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 25**

Which maven plugin is required to install a content package on a local AEM environment using maven?

- A. Maven Install Plugin
- B. FileVault Package Maven Plugin
- C. Content Package Maven Plugin
- D. Maven Bundle Plugin

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.adobe.com/content/help/en/experience-manager-64/developing/devtools/vlt-mavenplugin.html>

**QUESTION 26**

A developer needs to implement a functionality that requires creating a Custom Workflow Step.

Which two steps should the developer take to start developing the custom behavior? (Choose two.)

- A. Implement a Java class with this method “public void process(WorkItem item, WorkflowSession wfsession) throws WorkflowException”.
- B. Implement a Java class extending from class com.adobe.granite.workflow.exec.WorkflowProcess.
- C. Create a Workflow component node of the Super Resource Type “cq/workflow/components/model/process” under the folder /apps/components.
- D. Implement a Java class implementing the interface com.adobe.granite.workflow.exec.WorkflowProcess.
- E. Create a Workflow component node of the Super Resource Type “cq/workflow/components/step” under the folder /etc/workflow/models.

**Correct Answer:** DE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.adobe.com/content/help/en/experience-manager-64/developing/extending-aem/extending-workflows/workflows-customizing-extending.html>

**QUESTION 27**

In which two ways can a developer keep simple and maintainable CRX Access Control Lists? (Choose two.)

- A. Delete the ‘everyone’ group.
- B. Use Deny statements sparingly.

- C. Assign access rights to user groups rather than users.
- D. Assign access rights user by user.
- E. Use Deny statements extensively.

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://helpx.adobe.com/experience-manager/6-3/sites/administering/using/user-group-ac-admin.html>

### QUESTION 28

A developer is working on a project locally and needs to install packages manually. The deployments to the localhost must be automated to speed up development. This functionality must be toggled on and off, depending on the needs of the developer.

Which step should the developer take to achieve this?

- A. Configure the maven install plugin by defining the target URL, username, and password as maven properties.
- B. Run maven with the deploy phase. Maven will install the package on all local AEM instances running without further configuration.
- C. Add a maven profile and configure the content package maven plugin within this profile.
- D. Write a script that does a PUT call to AEM each time maven builds a new package.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 29

Which xml tag is used within the vault package definition to add a new path to a content package?

- A. <filter>
- B. <content>
- C. <path>
- D. <rule>

**Correct Answer:** A

**Section:** (none)

## Explanation

### Explanation/Reference:

Reference: <https://docs.adobe.com/content/help/en/experience-manager-learn/getting-started-wknd-tutorial-develop/project-setup.html>

### QUESTION 30

Refer to the following Client Library node structure.

```
+clientlibs
  - jcr:primaryType="cq:ClientLibraryFolder"
  - categories="[clientlibs.example]"
  + js.txt
    - jcr:primaryType="nt:file"
  + css.txt
    - jcr:primaryType="nt:file"
  + js
    - jcr:primaryType="nt:folder"
    + javascript1.js
    + javascript2.js
```

The js.txt looks like

```
+ javascript1.js
+ javascript2.js
```

The JavaScript is NOT present in the Client Library when it is loaded.

What should a developer do to resolve this issue?

- A. Add #base=js as the first line in the js.txt file.
- B. Change the js folder to a Client Library node and add the property categories="[clientlibs.example]".
- C. Split the js and css into 2 Client Libraries since they can't be in the same Client Library.
- D. Change the js folder to a Client Library node and embed it on the clientlibs node.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 31

A developer creates an OSGi service to access JCR content. Refer to the code snippet from the OSGi service below.

```
public class AccessRepository {
    private static final String SERVICE_ACCOUNT_IDENTIFIER = "sample-service";
    ...
    private final String getServiceUser() {
        final Map<string, object=""> authInfo = Collections.singletonMap (ResourceResolverFactory.SUB
            SERVICE_ACCOUNT_IDENTIFIER);
        ResourceResolver serviceResolver = resourceResolverFactory.getServiceResourceResolver(authInfo
        ...
    }
}
```

Bundle ID = com.adobe.aem.samples-bundle

Which set of steps should the developer take to make sure that the code works?

- A. 1. Create an AEM User called `serviceUser` with appropriate ACLs.  
2. Modify the Apache Sling Service User Mapper Service Amendment.

3. Set `user.mapping` to `com.adobe.aem.samples-bundle:sample-service=serviceUser`.
- B. .1. Create an AEM User called `serviceUser` with appropriate ACLs.  
2. Modify the Apache Sling Service User Mapper Service.  
3. Set `user.default` to `com.adobe.aem.samples-bundle:sample-service=systemUser`.
- C. 1. Create a System User called `systemUser` with appropriate ACLs.  
2. Modify the Apache Sling Service User Mapper Service.  
3. Set `user.default` to `com.adobe.aem.samples-bundle:sample-service=systemUser`.
- D. 1. Create a System User called `systemUser` with appropriate ACLs.  
2. Modify the Apache Sling Service User Mapper Service Amendment.  
3. Set `user.mapping` to `com.adobe.aem.samples-bundle:sample-service=systemUser`.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 32

A developer wants to automatically truncate request log files once they exceed 10 MB.

Which OSGi configuration should the developer modify?

- A. Apache Sling Customizable Request Data Logger
- B. Adobe Granite Log Analysis Service
- C. Apache Sling Logging Writer Configuration
- D. Apache Sling Logging Configuration

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 33

A Client-Side Library has the category "library.example".

Which HTL statement should a developer use to reference only the CSS files of this Client-Side Library?

- A. `<sly data-sly-use.clientlib="/libs/granite/sightly/templates/clientlib.html" data-sly-call="{clientlib.css @ categories='library.example'}"/>`
- B. `<sly data-sly-use.clientlib="/libs/granite/sightly/templates/clientlib.html" data-sly-call="{clientlib.css @ category='library.example'}"/>`
- C. `<sly data-sly-use.clientlib="/libs/granite/sightly/templates/clientlib.html" data-sly-call="{clientlib.all @ categories='library.example.css'}"/>`
- D. `<sly data-sly-use.clientlib="/libs/granite/sightly/templates/clientlib.html" data-sly-call="{clientlib.all @ type='css', categories='library.example'}"/>`

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://aemcq5pedia.wordpress.com/author/aempediaalpha/page/2/>

#### **QUESTION 34**

A developer is working on an HTL script for a custom component. The script has the following requirements:

- This script must list the title of every child page of the current page.
- If a child page does not have any children, then its title should link directly to that page.
- If a child page has children, then the title of every one of its children should be listed beneath its title.
- The title of every grandchild page should link directly to that page.

Which HTL script should the developer use to meet these requirements?

A.

```
<ul data-sly-list.child="{currentPage.listChildren}">
  <li>
    <sly data-sly-test.grandchildren="{child.listChildren}">
      <b>{child.title}</b>
      <ul data-sly-list.grandchild="{grandchildren}">
        <li>
          <a href="{grandchild.path @ extension = 'html'}">{grandchild.title}</a>
        </li>
      </ul>
    </sly>
    <sly data-sly-test="{!grandchildren}">
      <a href="{child.path @ extension = 'html'}">{child.title}</a>
    </sly>
  </li>
</ul>
```

B.

```
<ul data-sly-list.child-"${currentPage.listChildren}">
  <li>
    <sly data-sly-test.grandchildren="${child.listChildren}">
      <b>${child.title}</b>
      <ul data-sly-list.grandchild="${grandchildren}">
        <li>
          <a href="${grandchild.path}">${grandchild.title}</a>
        </li>
      </ul>
    </sly>
    <sly data-sly-test="${!grandchildren}">
      <a href="${child.path}">${child.title}</a>
    </sly>
  </li>
</ul>
```

C.

```
<ul data-sly-list.child="${currentPage.listChildren}">
  <li>
    <sly data-sly-test.grandchildren="${child.listChildren}">
      <b>${child.title}</b>
      <ul data-sly-list.grandchild="${grandchildren}">
        <li>
          <a href="${grandchild.path}">${grandchild.title}</a>
        </li>
      </ul>
    </sly>
    <sly data-sly-test="${!child.listChildren}">
      <a href="${child.path}">${child.title}</a>
    </sly>
  </li>
</ul>
```

D.

```
<ul data-sly-list.child="{currentPage.listChildren}">
  <li>
    <sly data-sly-test.grandchildren="{child.listChildren}">
      <b>{child.title}</b>
      <ul data-sly-list.grandchild="{grandchildren}">
        <li>
          <a href="{grandchild.path @ extension = 'html'}">{grandchild.title}</a>
        </li>
      </ul>
    </sly>
    <sly data-sly-test="{!child.listChildren}">
      <a href="{child.path @ extension = 'html'}">{child.title}</a>
    </sly>
  </li>
</ul>
```

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 35

A custom AEM application has a run time dependency to a third party OSGi bundle that is NOT included in out-of-the-box AEM. The third party dependency needs to be available for multiple applications and be upgraded separately from the custom AEM application.

How should a developer make sure that the bundle is installed on all environments?

- A. Add the dependency to the third party bundle in the pom.xml of the project bundle.
- B. Embed the third party bundle in the bundle that depends on it.
- C. Embed the bundle in a content package to have it automatically deployed.
- D. Declare the dependency correctly using a link to the OSGi Bundle Repository (OBR).

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 36

A developer running a local AEM instance and working on an AEM project needs to change a large number of files locally in the filesystem. The developer needs to get the changes uploaded to the local AEM instance to verify changes almost immediately in the browser?

What action should the developer take to most efficiency meet these requirements?

- A. Access CRXDE and upload the files through the interface.
- B. Make the changes in CRXDE create a content package, download it, and expand it into the working directory after each change.
- C. Install FileVault bundle in the AEM instance and register the local working directory for synchronization.
- D. Build a Content Package using maven and deploy it after each change.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 37

A developer wants to consume AEM Page Data in a Single Page Application. The Single Page Application is coded to understand JSON format. Only page content should be exposed through JSON. All the existing components are based on foundation components.

Which change should the developer make in the existing components to support this requirement?

- A. Add JSON as the default extension in Apache Sling Servlet/Split Resolver and Error Handler Configuration.
- B. Invoke the page URL with the extension .json to get the values to construct the required output.
- C. Implement a Sling Model Exporter for the components.
- D. Create a custom sling event handler to handler JSON requests.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 38**

A custom AEM application contains a service component that needs to access the JCR repository within the activate method. The activate method uses `ResourceResolverFactory.getServiceResourceResolver(...)` without specifying a sub service name.

What should a developer do to make sure the user service mapping for the service component is available?

- A. Create a field of type `ServiceUserMapped` and annotate it with `@Reference`.
- B. Wait for the service `ServiceUserMapper` via `BundleContext.getServiceReference(...)`.
- C. Create a field of type `ServiceUserMapped` and annotate it with `@Reference` using `ReferencePolicy.DYNAMIC`.
- D. Create a field of type `ServiceUserMapper` and annotate it with `@Reference` using `ReferencePolicy.STATIC`.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 39**

After a recent code deployment, an AEM site is experiencing longer than usual query execution time. The deployment package contained some new Lucene index definitions. A developer needs to identify the long running queries and confirm that the new index definitions are getting applied correctly.

Which action should the developer take to investigate this problem?

- A. Go to Tools > Operations >Diagnosis > Download Thread Dumps. Analyze the Thread Dumps to identify long running requests.
- B. Go to Tools > Operations >Diagnosis > Log Message. Configure DEBUG log level on `com.day.cq.search` to monitor search queries.
- C. Go to Tools > Operations > Diagnosis > Index Manager. Select the new Indexes and run a consistency check.
- D. Go to Tools > Operations >Diagnosis > Query Performance > Slow Queries. Select a Query and Click on Explain.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 40**

Which environment variable in the AEM start script should a developer modify to enable remote debugging?

- A. CQ\_HOST
- B. CQ\_JVM\_OPTS
- C. CQ\_PORT
- D. CQ\_RUNMODE

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://helpx.adobe.com/experience-manager/kb/CQ5HowToSetupRemoteDebuggingWithEclipse.html>

**QUESTION 41**

AEM is installed in \$AEM\_HOME.

In which subfolder are the command line startup and shutdown scripts located?

- A. \$AEM\_HOME/crx-quickstart/bin/
- B. \$AEM\_HOME/crx-quickstart/scripts/
- C. \$AEM\_HOME/
- D. \$AEM\_HOME/crx-quickstart/opt/

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://helpx.adobe.com/experience-manager/6-3/sites/deploying/using/deploy.html>

**QUESTION 42**

A customer bundle of an application is in state “Installed” after deploying it with Maven.

What should a developer do to change it to state “Active”?

- A. Use the “Update” action for the bundle in the Apache Felix Web Console.

- B. Use the “Start” action for the bundle in the Apache Felix Web Console.
- C. Reinstall the content package using the package manager.
- D. Ensure all OSGi requirements are met and re-deploy using Maven.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 43**

How should a developer configure the replication agent to flush the dispatcher cache for a newly activated page?

- A. Set the serialization type property of the default agent to dispatcher flush.
- B. Create a new replication agent and set transport URI to point to the dispatcher.
- C. Create a dispatcher flush agent in publish instance.
- D. Create a reserve replication agent on the author instance.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://helpx.adobe.com/experience-manager/6-3/sites/deploying/using/replication.html#ConfiguringyourReplicationAgents>

#### **QUESTION 44**

Which log file should a developer use to search for exception stack traces?

- A. <aem-install>/crx-quickstart/logs/request.log
- B. <aem-install>/crx-quickstart/logs/error.log
- C. <aem-install>/crx-quickstart/logs/access.log
- D. <aem-install>/crx-quickstart/logs/info.log

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**



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