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## Adobe

### AD0-E103



## Adobe Experience Manager Developer

**Version: 8.0**

**[ Total Questions: 94]**

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**Question #:1**

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 `ServiceUserMapper` and annotate it with `@Reference` using `ReferencePolicy.STATIC`
- 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 `ServiceUserMapped` and annotate it with `@Reference`

**Answer: D**

**Question #:2**

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) throws
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();
        session.logout();
    }
}

```

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"
```

A. Option A

B. Option B

C. Option C

D. Option D

**Answer: A****Question #:3**

A developer installs the latest Service pack to a local AEM author instance.

How should the developer install this package on the publish instance?

- A. Replicate from package manager of publish instance
- B. Use upload/install from OSGi console of publish instance
- C. Replicate from package manager of author instance
- D. Use upload/install from OSGi console of author instance

**Answer: C**

#### Question #:4

A developer is creating a custom component on the page /latestBlogs.html that needs to list all the titles of the blogs pages under /content/blogs.

How does this component get the list of child pages?

- A. Instantiate a node object with session.getNode(/content/blogs) and then iterate through the child nodes and print the title for each.
- B. Use the QueryDebugger to look for all children of /content/blogs and then iterate through the result set and print the title for each.
- C. Adapt the resourceResolver to the PageManger service, then use the getPage(/content/blogs) to instantiate a Page object and then iterate through the child pages and print the title for each.
- D. Use PageManager.getPage("/content/blogs") of the static PageManager class to instantiate a Page object and then iterate through the child pages and print the title for each.

**Answer: B**

#### Question #:5

A developer is creating templates and/or components using CRXDE Lite. The developer needs to check the files into source control.

Which tool should the developer use to achieve this goal?

- A. vlt command
- B. Content Explorer
- C. <http://localhost:4502/crx/checkout>
- D. mvn command

**Answer: A**

**Question #:6**

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

- A. Use Deny statements extensively
- B. Delete the `everyone` group
- C. Use Deny statements sparingly
- D. Assign access rights to user groups rather than users
- E. Assign access rights user by user

**Answer: C D**

**Question #:7**

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.

**Answer: B**

**Question #:8**

In which maven build phase is the content package assembled?

- A. install
- B. compile

- C. package
- D. deploy

**Answer: C**

#### Question #:9

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

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

**Answer: B**

#### Question #:10

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 be-neath 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>
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer: B**

**Question #:11**

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(...)`.

**Answer: C**

**Question #:12**

There are performance, stability, and security issues with an installed AEM instance.

What should a developer do to fix these issues?

- A. Delete and reinstall the AEM instance.
- B. Install Adobe-provided Apache configuration file.
- C. Stop, clear cache files, and restart the AEM instance.
- D. Install service pack updates from package share.

**Answer: C**

**Question #:13**

What is not available in `global.jsp`?

- A. `currentPage`

- B. currentNode
- C. currentDesign
- D. currentResource

**Answer: D**

#### Question #:14

In OSGi bundle Activator.java is registered through a service DeveloperInfo.java

DeveloperInfo.java

```
java
package com.adobe.training.core;
public interface DeveloperInfo {
}
```

Activator.java

```
java
package com.adobe.training.core;
import org.osgi.service.component.annotations.*;
@Component(service=DeveloperInfo.class)
public class Activator {
    private final org.slf4j.Logger logger = org.slf4j.LoggerFactory.getLogger(getClass());
    @Activate
    public void start() {
        logger.info("#####Started#####");
    }
    @Deactivate
    public void stop() {
        logger.info("#####Stopped#####");
    }
}
```

Maven install generates an error during deployment. Refer to the error information below:

```
[INFO] --- maven-bundle-plugin:3.3.0:bundle (default-bundle) @training.core ---  
[ERROR] Bundle com.adobe:training.core:bundle:0.0.1-SNAPSHOT : Class com.adobe.training.core.Activator is not assignable to specified  
service com.adobe.training.core.DeveloperInfo  
[ERROR] Error(s) found in bundle configuration  
[INFO] -----  
[INFO] BUILD FAILURE  
[INFO] -----  
[INFO] Total time: 5.572 s  
[INFO] Finished at: 2019-02-12T16:10:25-08:00  
[INFO] Final Memory: 22M/384M  
[INFO] -----  
[ERROR] Failed to execute goal org.apache.felix:maven-bundle-plugin:3.3.0:bundle (default-bundle) on project training.core:  
Error(s) found in bundle configuration ->[Help 1]
```

Which action should the developer take to resolve the build error?

- A. @Service annotation is missing in DeveloperInfo.java.
- B. Interface DeveloperInfo does NOT have any method.
- C. Activator class is NOT implementing DeveloperInfo interface.
- D. The required Maven repository for OSGi is missing.

**Answer: C**

#### Question #:15

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

**Answer: A**

**Question #:16**

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.

**Answer: D**

**Question #:17**

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.

**Answer: A**

**Question #:18**

There is a config file package.myClass.config.factory-myApp.xml – what is true? (Choose two)

- A. The word "config" is a sign of factory

- B. The word "factory" is a sign of factory
- C. Should be set package.myClass.config.factory-<identifer>
- D. Must be set package.myClass.config.factory-<identifer>

**Answer: C**

#### Question #:19

A developer creates a template-type for building editable templates.

The resulting editable templates and pages must always contain a specific layout container that can NOT be deleted by the author.

How should the developer meet this requirement?

- A. Add the layout container component to the structure section of the template-type
- B. Add the layout container component by including it on the actual page component
- C. Add a content policy to the template-type to disable the removal of the layout container
- D. Add the layout container component to the initial section of the template-type

**Answer: A**

#### Question #:20

After adding new features, a developer's environment is experiencing slowness before ultimately running out of memory. The initial log analysis points towards a large number of open sessions.

Which action should the developer take to further monitor the overall session count on this AEM instance?

- A. Run the following command to generate thread dumps `jstack -l <pid> >> threaddumps.log`, analyze thread dumps to find long running sessions.
- B. Go to Web Console > Status > Threads, verify the overall thread count.
- C. Go to Tools > Operations > Monitoring. Create a new report based on Number of Active Sessions as metric.
- D. Go to `<aem-install>/crx-quickstart/logs/stderr/log`, use the following command `grep -o 'CRXSessionImpl' stderr.log | wc -l`.

**Answer: D**

**Question #:21**

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

**Answer: A**

**Question #:22**

Which log file contains AEM application request and response entries?

- A. response.log
- B. request.log
- C. history.log
- D. audit.log

**Answer: B**

**Question #:23**

A banking AEM application contains functionality to calculate a mortgage rate based on user input. A servlet in place calculates the result in the backend. A call to an internal third-party REST service is required to retrieve the average object value based on a given zip code.

The following three service interfaces are used:

MortgageCalculationServlet, MortgageCalculationService and ObjectValueLookupRestService where MortgageCalculationServlet has a dependency to MortgageCalculationService and



MortgageCalculationService has a dependency to ObjectValueLookupRestService.

The calculation has many combinations of input parameters and edge cases, so the JUnit coverage must be as high as possible.

Which two strategies should the developer use to ensure testability of the application code? (Choose two)

- A. Use the standard OSGi @Reference annotation to wire the dependencies in application code
- B. Use BundleContext.getServiceReference(...) and BundleContext.getService(...) in application code to look up for the required services just before usage
- C. Deploy a third party dependency injection container to wire dependencies more efficiently in application code
- D. Use a mock framework to be able to create and inject mocks in the test code
- E. Use static methods to avoid boilerplate in application code

**Answer: A D**

#### Question #:24

A developer creates a custom Client Library named foobar.

This Client Library embeds 5 other Client Libraries and contains 10 JavaScript source files. One of these files, called foo.js, has a bug on line 8 which causes an exception. The Client Library is throwing this exception on line 1350 when it is included on a webpage.

How should a developer find the exact line in foo.js where the exception has been thrown?

- A. 1. Enable JS/CSS minification in OSGi configuration console for HTML Library Manager.2. Check the JavaScript exception log in the OSGi web console.
- B. 1. Temporarily remove the embedded Client Libraries of the foobar Client Library.2. Use the browser JavaScript debugging tools.
- C. 1. Add the selector debugClientLibs to the page request.2. Check the JavaScript exception log in the OSGi web console.
- D. 1. Add the query parameter debugClientLibs=true to the request.2. Use the browser JavaScript debugging tools.

**Answer: D**

#### Question #:25



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`

**Answer: B**

#### Question #:26

A developer wants to consume AEM Page Data in 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?Script Resolver and Error handler Configuration
- B. Implement a Sling Model Exporter for the components
- C. Create a custom sling event handler to handle JSON requests
- D. Invoke the page URL with the extension .json to get the values to construct the required output

**Answer: B**

#### Question #:27

A developer wants to create a Client Library that will only be included on touch enabled devices.

What action should the developer take to achieve this?

- A. Add the line `"#base=touch"` to the `js.txt` and `css.txt` files in the Client Library Folder
- B. Pass the parameter `user-agent='touch'` when referencing the Client Library
- C. Set the `channels` property on the Client Library Folder to `"touch"`

D. Create a resource folder called "touch" under the Client Library Folder

**Answer: C**

#### Question #:28

A developer needs to create a banner component. This component shows an image across the full width of the page. A title is shown on top of the image. This text can be aligned to the left, middle, or right. The core components feature a teaser component which matches almost all requirements, but not all.

What is the most maintainable way for the developer to implement these requirements?

- A. Use and configure the teaser core component.
- B. Create a new custom component from scratch.
- C. Overlay the teaser core component.
- D. Inherit from the teaser core component.

**Answer: A**

#### Question #:29

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 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)

**Answer: C**

#### Question #:30

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

**Answer: B**

#### Question #:31

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/configurMgr")
        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);
    }
}

```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer: B**

#### Question #:32

A developer has a component named foobar with the following file:

FooBar.java

```

import com.adobe.cq.sightly.WCMUsePojo;

public class FooBar extends WCMUsePojo; {

    @Override

    public void activate() throws Exception {}

    public String getLink() {

        return "http://www.foo'bar.com";
    }
}

```

```
}  
  
public String getText() {  
  
    return "foo'bar";  
  
}  
  
}  
  
foobar.html  
  
<div data-sly-use.fooBar="FooBar">  
  
<a href="${fooBar.link}" title="${fooBar.text}">  
  
    ${fooBar.text}  
  
</a>  
  
</div>
```

What is the output when the component is rendered?

A. "<div>

```
<a href=""https://www.foo%27bar.com"" title=""foo'bar"">
```

```
foo&#39;bar
```

```
</a>
```

```
</div>"
```

B. "<div>

```
<a href=""https://www.foo%27bar.com"" title=""foo&#39;bar"">
```

```
foo'bar
```

```
</a>
```

```
</div>"
```

C. "<div>

```
<a href=""https://www.foo&#39;bar.com"" title=""foo&#39;bar"">
```

```
foo&#39;bar
```

```
</a>
```

</div>"

D. "<div>

<a href=""https://www.foo%27bar.com"" title=""foo&#39;bar"">

foo&#39;bar

</a>

</div>"

**Answer: D**

### Question #:33

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.

**Answer: A**

### Question #:34

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

**Answer: B**

**Question #35**

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

**Answer: A**

**Question #36**

A developer needs an existing workflow to run only when pages are created under a certain folder.

What should the developer create to achieve this?

- A. A Launcher with the field path pointing to the folder and condition field and have the value `jcr:content/jcr:primaryType==cq:Page`
- B. A Launcher with the field condition that has the value `jcr:content/page`
- C. A Launcher with the field exclude that has the value `jcr:nodeType==cq:Page`
- D. A Launcher with the field path pointing to the folder and nodetype field have the value `cq:Page`

**Answer: D**

**Question #37**

A developer wants to change the log level for a custom API.

Which OSGi configuration should the developer modify?

- A. Apache Sling Logging Configuration
- B. Apache Sling Log Tracker Service
- C. Apache Sling Logging Writer Configuration
- D. Adobe Granite Log Analysis Service



**Answer: A****Question #:38**

Refer to the following four Client Library Folders.

```
html
One
- categories="[library.one]"
- dependencies="[library.three, library.four]"
- embed="[library.two]"

Two
- categories="[library.two]"

Three
- categories="[library.three]"
- dependencies="[library.four]"

Four
- categories="[library.four]"
```

A developer uses the following:

```
html
<data-sly-call="{clientlib.css @ categories='library.one'}"/>
```

A

```
<link rel="stylesheet" href="library.one.css">  
<link rel="stylesheet" href="library.three.css">  
<link rel="stylesheet" href="library.four.css">
```

B

```
<link rel="stylesheet" href="library.two.css">  
<link rel="stylesheet" href="library.one.css">  
<link rel="stylesheet" href="library.three.css">
```

C

```
<link rel="stylesheet" href="library.four.css">  
<link rel="stylesheet" href="library.three.css">  
<link rel="stylesheet" href="library.one.css">
```

D

```
<link rel="stylesheet" href="library.three.css">  
<link rel="stylesheet" href="library.four.css">  
<link rel="stylesheet" href="library.one.css">
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer: A**

#### Question #:39

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.

- 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.

**Answer: B D**

#### Question #:40

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

Which OSGi configuration should the developer modify?

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

**Answer: D**

#### Question #:41

A developer is working on the following Sling Model that is being used in a component.

```
@Model(adaptables = SlingHttpServletRequest.class, defaultInjectionStrategy =  
DefaultInjectionStrategy.OPTIONAL)
```

```
public class SampleModel {
```

```
    @Inject
```

```
    private Page currentPage;
```

```
    private boolean matchingTitle;
```

```
    @PostConstruct
```

```
    private void init(){
```

```
        matchingTitle = title.equals(currentPage.getName());
```

```
    }
```

```
public boolean isMatchingTitle(){  
  
    return matchingTitle;  
  
}  
  
}
```

The model must check if the configured value of the jcr:title property for the component matches the same name of the current page. If the jcr:title property of the component has NOT been configured, then isMatchingTitle() must return false.

How should the developer inject the title property in this model?

- A. `@ValueMapValue`  
`@Via("jcr:title")`  
`@Required`  
`private String titile;"`
- B. `@ValueMapValue`  
`@Named("jcr:title")`  
`@Default(values = "")`  
`private String titile;"`
- C. `@ValueMapValue`  
`@Named("jcr:title")`  
`@Required`  
`private String titile;"`
- D. `@ValueMapValue`  
`@Via("jcr:title")`  
`@Default(values = "")`  
`private String titile;"`

**Answer: B**

Question #:42

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. Add a maven profile and configure the content package maven plugin within this profile
- C. Write a script that does a PUT call to AEM each time maven builds a new package
- D. Run maven with the deploy phase. Maven will install the package on all local AEM instances running without further configuration

**Answer: B**

#### Question #:43

A developer needs to change the label "Sites" in the navigation of AEM author to "Websites".

Which action should the developer take to achieve this?

- A. Change the code of `/libs/granite/ui/components/shell/clientlibs/shell/js/globalnav.js` to display the new value
- B. Create a new node `/apps/cq/core/content/nav/sites` and update the property `jcr:title`
- C. Modify the code of `/libs/granite/ui/components/shell/globalnav/overlay/overlay.jsp` to display the new value
- D. Modify the node `/libs/cq/core/content/nav/sites` by updating the `jcr:title` property

**Answer: D**

#### Question #:44

The following stack trace is written in the error.log file after installing a custom application package.

Could not start bundle com.adobe.cq.sample-bundle [526]. Reason: {}. Will retry.

```
org.osgi.framework.BundleException: Unable to resolve com.adobe.cq.sample-bundle [526](R 526.0):  
missing requirement [com.adobe.cq.sample-bundle] osgi.wiring.package
```

What are two different ways that the developer could resolve the OSGi bundle dependency error? (Choose

two)

- A. Go to the Dependency Finder in the System Console to find if another bundle is exporting a similar version of the classes and change the project pom.xml to match the same version
- B. Install the jar in AEM via the curl command 'curl -u username:password -F file=@"./com.example.customlib-3.8.jar" -F name="Dependency" -F force=true -F install=true http://localhost:4502/crx/packmgr/service.jsp --progress-bar -o upload.txt'
- C. Create a folder named "deploy" under \$AEM\_HOME/crx-quickstart/ and copy com.example.customlib-3.8.jar in there so AEM uploads it automatically
- D. Go to the project parent pom.xml file and add the dependency with the scope "compile" and instruct the bundle plugin to include the dependency in runtime
- E. Upload the file com.example.customlib-3.8.jar into /apps/<project>/libs folder in CRX DE to make it available for the OSGi bundle

**Answer: A D**

#### Question #:45

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.

**Answer: D**

#### Question #:46

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.

**Answer: B**

#### Question #:47

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.

**Answer: B**

#### Question #:48

Two AEM publish instances feed a single Dispatcher.

Which part of the Dispatcher configuration should a developer review to ensure both AEM publish instances are used?

- A. virtualhosts
- B. farms
- C. filter
- D. cache

**Answer: B**

#### Question #:49

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

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

**Answer: A**

#### Question #:50

A developer needs to create a component with the following requirements:

- \* The component must be configurable
- \* The component should be editable, NOT removable
- \* An author should be unable to add the component to a page through design mode



A

```
+ component
- jcr:primaryType="cq:Component"
- jcr:title="Component"
- componentGroup=".hidden"
+ cq:dialog
...
+ cq:editConfig
  - cq:actions = "[edit]"
```

B

```
+ component
- jcr:primaryType="cq:Component"
- jcr:title="Component"
- cq:actions = "[edit]"
+ cq:dialog
...
```

C

```
+ component
- jcr:primaryType="cq:Component"
- jcr:title="Component"
- componentGroup=".hidden"
- cq:actions = "[edit]"
+ cq:dialog
...
```

D

```
+ component
- jcr:primaryType="cq:Component"
- jcr:title="Component"
- hidden="true"
+ cq:dialog
...
+ cq:editConfig
  - cq:actions = "[edit]"
```

Which mode structure should the developer use to meet these requirements?

A. Option A

B. Option B

C. Option C

D. Option D

**Answer: C**

#### Question #:51

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. Change the js folder to a Client Library node and add the property categories = "[clientlibs.example]"
- B. Change the js folder to a Client Library node and embed it on the clientlibs node
- C. Add #base=js as the first line in the js.txt file

D. Split the js and css into 2 Client Libraries since they can't be in the same Client Library

**Answer: C**

#### Question #:52

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>
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer: C**

**Question #:53**

A developer is working on a complex project with multiple bundles. One bundle provides an OSGi service for other bundles.

Which two options are necessary to ensure that the other bundles can reference that OSGi service? (Choose two.)

- A. The bundles consuming the service need to import the fully qualified name of the service interface.
- B. The bundle providing the service needs to contain an adequate SCR descriptor file.
- C. The bundle providing the service needs to export the java package of the service interface.
- D. The bundle providing the service needs to contain a whitelist of allowed consumer bundles.
- E. The service needs to correctly declare metatype information.

**Answer: A C**

**Question #:54**

A developer needs to upgrade existing components (Proxy Components) based on Core Components Version 1(v1) to Core Components Version 2(v2).

How should the developer upgrade to V2 Core Components?

- A. Proxy Components will be automatically upgraded to the V2 Core Component on AEM Restart
- B. Modify the sling:resourceSuperType property on the V1 core components to point to V2 Component
- C. Modify the sling:resourceSuperType property on the proxy component to point to V2 Component
- D. Create a new Proxy Component and set sling:resourceType property to V2 Core Component

**Answer: C**

**Question #:55**

A developer needs to implement a header component for a website. The component has the following requirements:

- The component should be configured once on the page highest in the hierarchy.
- The header component on pages lower in the hierarchy should look the same and show the same data.
- If necessary, the configuration can be overwritten on a child page.

- The component should show a list of links that are configured in the header component.

Which code snippet for returning the list of pages should the developer use?

- A. `"public String[] getHeaderLinks(Page page) {  
  
 final Resource pageContent = page.getContentResource();  
  
 final ComponentInheritanceValueMap properties = ComponentInheritanceValueMap(pageContent);  
  
 return properties.get(HEADER_PAGE_LIST, String[].class);  
  
}"`
- B. `"public String[] getHeaderLinks(Resource componentResource) {  
  
 final ComponentInheritanceValueMap properties =  
 componentResource.adaptTo(ComponentInheritanceValueMap.class);  
  
 return properties.getInherited(HEADER_PAGE_LIST, String[].class);  
  
}"`
- C. `"public String[] getHeaderLinks(Resource componentResource) {  
  
 final HierarchyNodeInheritanceValueMap properties = new HierarchyNodeInheritanceValueMap  
 (componentResource);  
  
 return properties.getInherited(HEADER_PAGE_LIST, String[].class);  
  
}"`
- D. `"public String[] getHeaderLinks(Resource componentResource) {  
  
 final HierarchyNodeInheritanceVauleMap properties =  
 componentResource.adaptTo(HierarchyNodeInheritanceVauleMap.class);  
  
 return properties.getInherited(HEADER_PAGE_LIST, String[].class);  
  
}"`

**Answer: C**

#### Question #:56

A developer has a component named foobar with the following file:

foobar.html:

```
<div data-one="${'foo'}" data-two="${2}" data-three="${true}"></div>
```

```
<div data-one="${}" data-two="${0}" data-three="${false}"></div>
```

What is the output when the component is rendered?

A. "<div data-one=""foo"" data-two=""2"" data-three=""true""></div>

```
<div data-one="" data-two=""0"" data-three=""false""></div>"
```

B. "<div data-one=""foo"" data-two=2 data-three=""></div>

```
<div data-one="" data-two=0 data-three=""></div>"
```

C. "<div data-one=""foo"" data-two=""2"" data-three></div>

```
<div data-two=""0""></div>"
```

D. "<div data-one=""foo"" data-two=2 data-three=""></div>

```
<div data-two=0 data-three=""></div>"
```

**Answer: C**

#### Question #:57

The dependency of an AEM project fails when a developer configures using Apache Maven. Refer to the error information below.

[INFO] -----

[ERROR] COMPILATION ERROR :

[INFO] -----

[ERROR] /training/core/src/main/java/com/adobe/training/core/listeners/SimpleResourceListener.java:[18,28]  
package org.apache.sling.api does not exist

[ERROR] /training/core/src/main/java/com/adobe/training/core/filters/LoggingFilter.java:[26,28] package  
org.apache.sling.api does not exist

[ERROR] /training/core/src/main/java/com/adobe/training/core/filters/LoggingFilter.java:[27,31] package  
org.apache.sling.engine does not exist

[ERROR] /training/core/src/main/java/com/adobe/training/core/models/HelloWorldModel.java:[22,37]  
package org.apache.sling.api.resource does not exist

[ERROR] /training/core/src/main/java/com/adobe/training/core/models/HelloWorldModel.java:[25,33]

package org.apache.sling.api.settings does not exist

[ERROR] /training/core/src/main/java/com/adobe/training/core/models/HelloWorldModel.java:[31,13] cannot find symbol

symbol: class SlingSettingsService

location: class com.adobe.training.core.models.HelloWorldModel

What should a developer add to the pom.xml to fix the Maven build?

A. "<dependency>

<groupId>com.adode.aem</groupId>

<artifactId>aem-api</artifactId>

<version>6.4.0</version>

<classifier>apis</classifier>

<scope>provided</scope>

</dependency>"

B. "<dependency>

<groupId>com.adode.aem</groupId>

<artifactId>uber-jar</artifactId>

<version>6.4.0</version>

<classifier>apis</classifier>

<scope>provided</scope>

</dependency>"

C. "<resources>

<resource>

<directory>src/main/content/jcr\_root</directory>

<filtering>>false</filtering>

<excludes>

<exclude>\*/.vlt</exclude>



```
<exclude>**/.vltignore</exclude>
```

```
<exclude>libs</exclude>
```

```
</excludes>
```

```
</resource>
```

```
</resources>"
```

```
"<repositories>
```

D. <repository>

```
<id>adobe-public-releases</id>
```

```
<name>Adobe Public Repository</name>
```

```
<url>https://repo.adobe.com/nexus/content/groups/public/</url>
```

```
<layout>default</layout>
```

```
</repository>
```

```
</repositories>"
```

**Answer: B**

#### Question #:58

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.

```
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");
    }
}
```

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

**Answer: B**

#### Question #:59

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

**Answer: D**

#### Question #:60

AEM is installed in \$AEM\_HOME.

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

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

D. \$AEM\_HOME/crx-quickstart/bin/

**Answer: D**

#### Question #:61

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

**Answer: B E**

#### Question #:62

A developer creates two custom classes. ClassA has the following code:

```
package com.aem.abc;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

public class ClassA {

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

    public void classAMethod() {

        logger.debug("Message from Class A method");

    }

}
```

The developer creates a custom log custom.log with debug level in OSGi sling log support for the Java package com.aem.abc. The developer adds another class ClassB with the following code:

```
package com.aem.xyz;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

public class ClassB {

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

    public void classBMethod() {

        logger.debug("Message from Class B method");

    }

}
```

Which action must the developer take to see the log messages in the same file from both classes?

- A. Configure custom.log in OSGi web console -> Sling -> Log Support and replace com.aem.xyz with com.aem.abc
- B. Configure custom.log in OSGi web console -> Sling -> Log Support and replace com.aem.abc with com.aem.xyz
- C. Create separate a log file in the OSGi web console -> Sling -> Log Support for logger com.aem.xyz
- D. Configure custom.log in OSGi web console -> Sling -> Log Support and replace com.aem.abc with com.aem

**Answer: D**

#### Question #:63

A developer is creating a new OSGi bundle com.custom.package.b to expose new services.

com.custom.package.a is already installed and active in the system and has the following package definition:

```
Export-Package: com.custom.package.a;version="2.0"
Import-Package: com.sample.package.a;version="[1,2) "
Classpath: .,com.sample.package.b-3.0.jar
```

The system console shows the following package availability:

```
com.sample.package.a;version="1.5"  
com.sample.package.c;version="3.0"
```

Bundle com.custom.package.b to be installed has the following package definition:

```
Export-Package: com.custom.package.b;version="1.0"  
Import-Package: com.custom.package.a;version="[1,2)", com.sample.package.b;version="[3.0,3.0]", com.sample.package.c;version="[2,3)"
```

What will happen when the developer uploads the bundle com.custom.package.b into the system?

- A. The bundle will install but fail the activation due to unsatisfied dependencies com.sample.package.b and com.sample.package.c.
- B. The bundle will install but fail the activation due to unsatisfied dependency com.sample.package.c.
- C. The bundle will install and activate successfully.
- D. The bundle will install but fail the activation due to unsatisfied dependency com.sample.package.b.

**Answer: A**

#### Question #:64

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

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

**Answer: A**

#### Question #:65

A custom AEM application contains Bundle A and Bundle B. Bundle A has a dependency to Bundle B via Import-Package.

How can both bundles be deployed most efficiently across all environments?

- A. Use the Felix Web Console to upload the bundles in the correct order.

- B. Create one content package per bundle and use a package dependency to ensure installation order.
- C. Embed both bundles in one content package and use property 'installationOrder' in package properties for correct bundle installation order.
- D. Embed both bundles in one content package: the dependency via Import-Package is enough to ensure correct installation.

**Answer: D**

#### Question #:66

A developer is creating a custom method. This method must return a String property y from child x. the method must use only Sling APIs.

How should the developer retrieve property y of node x, and node x may or may NOT exist?

A

```
String y = ((ValueMap<String,String>) resource.getChild("x").getValueMap()).get ("y", "");
```

B

```
String y = null;
Resource x = resource.getChild("x");
if (null!=x) {
    ValueMap<String> map = x.getValueMap();
    if (null!=map) {
        y = map.get("y", "");
    }
}
```

C

```
String y = null;
Node x = node.getNode("x");
if (null!=x) {
    Properties<Strings,String> properties = x.getProperties();
    if (null!=properties) {
        y = properties.get("y", "");
    }
}
```

D

```
String y = null;
Node x = node.getNode("x");
if (null!=x) {
    ValueMap<Strings,String> map = x.getValueMap();
    if (null!=map) {
        y = map.get("y","");
    }
}
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer: A**

#### Question #:67

A developer needs to install a content package on an AEM environment. However a content package with the same name is already installed.

What would be the safest way for the developer to install the content package to make sure only the changes of the new content package get applied?

- A. Upload the content package to the CRX Package Share before installing it
- B. Use the "Force Upload" option when uploading the new content package
- C. Uninstall the existing content package before installing the new content package
- D. Install the content package using the OSGi web console

**Answer: C**

#### Question #:68

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

**Answer: D**

#### Question #:69

The custom AEM application needs to keep a flat list of all page paths underneath /content/thesite in memory for a real-time integration with high performance requirements.

The developer has the following intermediate state of the class:

```
@Component(immediate = true)
public class PagePathsCacheImpl implements PagePathsCache {
    @Reference
    ResourceResolverFactory resourceResolverFactory;
    List<String> pagePaths = new CopyOnWriteArrayList<String>();
    @Activate
    public void activate() {
        // ... here the initial state of pagePaths is filled via resourceResolver.findResources(...)
    }
    public List<String> getPagePaths() {
        return pagePaths;
    }
}
```

What action should the developer take to meet these requirements?

**A**

Make the class also implement `ResourceChangeListener` and add

```
property = {  
    ResourceChangeListener.CHANGES + "=ADDED",  
    ResourceChangeListener.CHANGES + "=REMOVED",  
    ResourceChangeListener.PRIMARY_TYPES + "=cq:Page"  
    ResourceChangeListener.PATHS + "=/content/thesite"  
}
```

to the `@Component` annotation. In method `onChange` update field `pagePaths` according to received list of `ResourceChange`.

**B**

Make the class also implement `ResourceChangeListener` and add

```
property = {  
    ResourceChangeListener.CHANGES + "=ADDED",  
    ResourceChangeListener.CHANGES + "=REMOVED",  
    ResourceChangeListener.PATHS + "=/content/thesite"  
}
```

to the `@Component` annotation. In method `onChange` filter received list of `ResourceChange` for pages only and update field `pagePaths` accordingly.

C  
Make the class also implement `ResourceObservationManager` and add

```
property = {  
    ResourceObservationManager.CHANGES + "=ADDED",  
    ResourceObservationManager.CHANGES + "=CHANGED",  
    ResourceObservationManager.CHANGES + "=REMOVED",  
    ResourceObservationManager.PATHS + "=/content/thesite"  
}
```

to the `@Component` annotation. In method `onChange` filter received list of `ResourceChange` for pages only and adjust field `pagePaths` accordingly.

D  
Make the class also implement `ResourceObservationManager` and add

```
property = {  
    ResourceObservationManager.CHANGES + "=ADDED",  
    ResourceObservationManager.CHANGES + "=REMOVED",  
    ResourceObservationManager.PRIMARY_TYPES + "=cq:Page"  
    ResourceObservationManager.PATHS + "=/content/thesite"  
}
```

to the `@Component` annotation. In method `onChange` update field `pagePaths` according to received list of `ResourceChange`.

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer: C**

#### Question #:70

An application contains an OSGi configuration that contains a password.

How should a developer prevent this sensitive information from being stored in plain text in JCR?

- A. 1. Use console at `/system/console/crypto` to encrypt the value  
2. Either create an encrypted value for each AEM instance and use runmodes to apply the different values or make sure relevant instances share the same master key

3. When loading the value in the code, call `CryptoSupport.unprotect(_)` before using the value
- B. 1. Use console at `/system/console/configMgr` and tick the checkbox "encrypt" before saving a configuration
2. Use encrypted values work across all instances
3. When loading the value in the code, call `CryptoSupport.unprotect(...)` before using the value
- C. 1. Use console at `/system/console/crypto` to encrypt the value
2. Either create an encrypted value for each AEM instance and use runmodes to apply the different values or make sure relevant instances share the same master key
3. Sensitive information is automatically decrypted using the `CryptoSupport` OSGi service before the value is returned
- D. 1. Use console at `/system/console/configMgr` and tick the checkbox "encrypt" before saving a configuration
2. Either create an encrypted value for each AEM instance and use runmodes to apply the different values or make sure relevant instances share the same master key
3. Sensitive information is automatically decrypted using the `CryptoSupport` OSGi service before the value is returned

**Answer: A**

#### Question #:71

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

**Answer: B****Question #:72**

A developer created an editable template with a Layout Container. The developer needs to restrict the Layout Container to just one column layout.

What should the developer do to the editable template to enforce this restriction?

- A. Add responsive column control component to the template and set column type to 1
- B. Overlay wcm.foundation.components.page.responsive Client Library and set @max\_col to 1
- C. Using Template Editor, lock the Structure Component for the template
- D. Using Template Editor, set the responsive settings to 1 column for Layout Container Policy

**Answer: D****Question #:73**

A developer is working with the following HTL expression in a component rendering script:

```
#{'path/page.infinity.json' @extension = 'html',  
removeSelectors = ['foo'],  
selectors = ['foo', 'bar'],  
prependSuffix = 'hello',  
suffix = 'world' }
```

What is the expected output of this expression?

- A. path/page.foo.bar.html/hello/world
- B. path/page.infinity.json.bar.html/world
- C. path/page.bar.html/hello/world
- D. path/page.bar.html/world

**Answer: C**

**Question #:74**

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

**Answer: C**

**Question #:75**

A developer is creating a custom component that shows a list of pages. For each page, the following items must be shown:

- \* Title of the page
- \* Description of the page
- \* A button with fixed text “Read more” that must be translatable

All of the above fields must be wrapped in a <div> tag.

The logic for obtaining the list of pages must be reusable for future components.

Which snippet should the developer use to meet these requirements?

A

```
<sly data-sly-use.model="com.example.Component"/>
<div data-sly-list="{model.pages}">
  <p>${item.title}</p>
  <p>${item.description}</p>
  <a href= "${item.link}">${"Read more" @ .translate} <a>
</div>
```

B

```
<sly data-sly-load.model="com.example.Component"/>
<div data-sly-list.page="{model.pages}">
  <p>${page.title}</p>
  <p>${page.description}</p>
  <a href= "${page.link}">${"Read more" @ i18n} <a>
</div>
```

C

```
<sly data-sly-use.model="com.example.Component"/>
<div data-sly-list="{model.pages}">
  <p>${item.title}</p>
  <p>${item.description}</p>
  <a href= "${item.link}">${"Read more" @ .i18n} <a>
</div>
```

D

```
<sly data-sly-use.model="com.example.Component"/>
<div data-sly-list="{model.pages}">
  <p>${model.title}</p>
  <p>${model.description}</p>
  <a href= "${item.link}">${"Read more" @ .translate} <a>
</div>
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer: B****Question #:76**

A developer needs to ensure that the path /content/<proj>/segments exists on all environments with the correct initial content that the developer provides in a package. Content that exists in that path should NOT be affected.

Which import mode should the developer use in the filter definition?

- A. update
- B. merge
- C. replace
- D. optional

**Answer: B****Question #:77**

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

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

**Answer: B****Question #:78**

An AEM site experiences slower page loads. A developer needs to identify the slow running requests.

How should a developer analyze the requests with long response times?

- A. Use proxy.jar with the following command `java -jar proxy.jar <host> <remoteport> <localport>` to debug the webserver and AEM server communication
- B. Use rlog.jar with the following command `$ java -jar ../opt/helpers/rlog.jar -n 10 request.log` to identify long running requests



- C. Download Heapdumps from Tools > Operations > Diagnosis and analyze the Heapdumps using the Memory Analyzer Tool
- D. Embed /libs/foundation/components/timing component in the Page Component and verify the page load time

**Answer: B**

#### Question #:79

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(1572)] checking [/libs/cq/security/userinfo.json]
```

```
[Wed Feb 13 13:14:04 2012] [D] [1376(1572)] Caching disabled due to query string:
tracking_id=1350373444666
```

```
[Wed Feb 13 13:14:04 2012] [D] [1376(1572)] cache-action for [/libs/cq/security/userinfo.json]: None
```

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

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

```
/filter
```

```
{
```

```
...
```

```
/0023 { /type ""allow"" /url ""/content/*/*.html?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:

/ignoreUrlParams

{

...

/0002 { /glob "tracking\_id" /type "allow" }

...

}"

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

/filter

{

...

/0023 { /type "allow" /url "/content/\*/\*.html" /params "tracking\_id" }

...

}"

**Answer: C**

Question #:80

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.

**Answer: C**

#### Question #:81

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

**Answer: A**

#### Question #:82

A developer needs to configure sets of values according to the following parameters:

- Varies for different staging environments
- Varies for different content paths
- Differs between author and publish

Which implementation strategy should the developer use to meet these requirements?

- A. A context aware configuration with buckets using an OSGi configuration
- B. One OSGi configuration for the set of values with runmodes
- C. A custom cloud configuration
- D. A JCR property at the content root node of the site with inheritedPageProperties

**Answer: A**

#### Question #:83

A developer has a component located under the path /apps. This component has a Client Library which is

directly loaded onto a page. The publish instance loads the page correctly. The dispatcher also loads the page but the Client Library is missing.

How should the developer resolve this issue, while taking security into consideration?

- A. Change the ACLs for the Client Library.
- B. Move the Client Library under /apps/<project>library.
- C. Add the property allowProxy with a boolean value true.
- D. Allow the path to the clientlibs on the dispatcher.

**Answer: C**

#### Question #:84

One content package of a custom application contains the following content paths.

```
/apps/myproj/install  
/apps/myproj/components  
/apps/myproj/i18n
```

The server also contains the content path /apps/myproj/configuration that must NOT be touched when installing the package.

Which two filter definitions should a developer use to always update only the contained paths upon installation in the server? (Choose two.)

A

```
<filter root="/apps/myproj">  
  <exclude pattern="configuration.*"/>  
</filter>
```

B

```
<filter root="/apps/myproj">  
  <include pattern=".*"/>  
  <exclude pattern="configuration.*"/>  
</filter>
```

C

```
<filter root="/apps/myproj">  
  <exclude pattern="/apps/myproj/configuration.*"/>  
</filter>
```

D

```
<filter root="/apps/myproj" mode="merge">
```

E

```
<filter root="/apps/myproj">  
  <include pattern="/apps/myproj/(install|components|i18n).*/>  
</filter>
```

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

**Answer: C D****Question #:85**

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.

**Answer: A**

#### Question #:86

A developer running a local AEM instance and working on an AEM project needs to change a large number of files locally in 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 efficiently meet these requirements?

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

**Answer: D**

#### Question #:87

A developer determines that the dispatcher is NOT refreshing the cached page /content/sampleproject/sample.html after it is updated.

The dispatcher.any contains the following entries:

/cache

```
{  
/docroot "/opt/dispatcher/cache"  
  
/statfile "/tmp/dispatcher-website.stat"  
  
/statfileslevel "2"  
  
/rules  
  
{  
  
/0000 { /glob "*" /type "allow" }  
  
}  
  
/invalidate  
  
{  
  
/0000 { /glob "*" /type "deny" }  
  
}  
  
}
```

Refer to the \$DOCROOT directory below:

```
[user@group /opt/dispatcher/cache]$ 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 ..
```

```
drw-r--r--. 4 root root 4096 Feb 7 03:21 content
```

```
-rw-r--r--. 1 apache apache 0 Feb 7 03:19 .stat
```

The dispatcher needs to cache the page and refresh it after it gets updated.

What action should the developer take to meet these requirements?

- A. Add the entry /0001 { /glob "\*.html" /type "allow" } in the /invalidate section
- B. Change the value of the entry /statfileslevel to "3"
- C. Delete the contents of the DOCROOT directory
- D. Remove /statfile or /statfileslevel



**Answer: A****Question #:88**

Which two methods could a developer use to obtain a Session without using a deprecated API? (Choose two.)

**A**

```
ResourceResolverFactory resolverFactory;
if (null!=resolverFactory) {
    Map<String,Object> authenticationInfo = new HashMap<String,String>();
    authenticationInfo.put("username", "reposervice");
    Session session = resolverFactory.getAdministrativeResourceResolver(authenticationInfo, resolverFactory.getPassword("reposervice")).adaptTo(Session.class);
}
```

**B**

```
SlingRepository repo;
if (null != repo) {
    Session session = repo.loginService(null, repo.getDefaultWorkspace());
}
```

**C**

```
SlingRepository repository;
if (null != repository) {
    Session session = repository.loginAdministrative("crx.default");
}
```

D

```
ResourceResolverFactory resolverFactory;  
if (null != resolverFactory) {  
    ResourceResolver resolver = resolverFactory.getServiceResourceResolver(null);  
    Session session = resolver.adaptTo(Session.class);  
}
```

E

```
ResourceResolverFactory resolverFactory;  
if (null!=resolverFactory) {  
    Map<String,Object> authenticationInfo = new HashMap<String,String>();  
    authenticationInfo.put("username", "admin");  
    authenticationInfo.put("password", "admin");  
    Session session = resolverFactory.getAdministrativeResourceResolver(authen  
ticationInfo).adaptTo(Session.class);  
}
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

**Answer: A C**

#### Question #:89

A developer is working on a dialog for a contact list component. The dialog has the following requirements:

1. The list of contacts must include one or more entries.
2. Contact details must include a full name.
3. Contact details must include an email address
4. Contact details can optionally include a short bio
5. Authors need to be able to rearrange the contacts in the list

Which dialog configuration should the developer use to meet all of these requirements?

A

```
+ multi
- sling:resourceType="granite/ui/components/coral/foundation/form/multifield"
+ field
- sling:resourceType="granite/ui/components/coral/foundation/container"
- name="./contacts"
+ items
+ name
- sling:resourceType="granite/ui/components/coral/foundation/form/textfield"
- fieldLabel="Full Name"
- name="./name"
+ email
- sling:resourceType="granite/ui/components/coral/foundation/form/textfield"
- fieldLabel="Email Address"
- name="./email"
+ bio
- sling:resourceType="granite/ui/components/coral/foundation/form/textarea"
- fieldLabel="Short Bio"
- name="./bio"
- required="{Boolean}false"
```

B

```
+ multi
- sling:resourceType="granite/ui/components/coral/foundation/form/multifield"
- composite="{Boolean}true"
- fieldLabel="Contact List"
- required="{Boolean}true"
+ field
- sling:resourceType="granite/ui/components/coral/foundation/container"
- name="./contacts"
+ items
+ name
- sling:resourceType="granite/ui/components/coral/foundation/form/textfield"
- fieldLabel="Full Name"
- name="./name"
- required="{Boolean}true"
+ email
- sling:resourceType="granite/ui/components/coral/foundation/form/textfield"
- fieldLabel="Email Address"
- name="./email"
- required="{Boolean}true"
+ bio
- sling:resourceType="granite/ui/components/coral/foundation/form/textarea"
- fieldLabel="Short Bio"
- name="./bio"
```

c

```
+ multi
- sling:resourceType="granite/ui/components/coral/foundation/form/multifield"
+ field
- sling:resourceType="granite/ui/components/coral/foundation/container"
- composite="{Boolean}true"
- name="./contacts"
+ items
+ name
- sling:resourceType="granite/ui/components/coral/foundation/form/textfield"
- fieldLabel="Full Name"
- name="./name"
- required="{Boolean}true"
+ email
- sling:resourceType="granite/ui/components/coral/foundation/form/textfield"
- fieldLabel="Email Address"
- name="./email"
- required="{Boolean}true"
+ bio
- sling:resourceType="granite/ui/components/coral/foundation/form/textarea"
- fieldLabel="Short Bio"
- name="./bio"
```



D

```
+ multi
- sling:resourceType="granite/ui/components/coral/foundation/form/multifield"
- fieldLabel="Contact List"
+ field
- sling:resourceType="granite/ui/components/coral/foundation/container"
- composite="{Boolean}true"
- name="./contacts"
+ items
+ name
- sling:resourceType="granite/ui/components/coral/foundation/form/textfield"
- fieldLabel="Full Name"
- name="./name"
+ email
- sling:resourceType="granite/ui/components/coral/foundation/form/textfield"
- fieldLabel="Email Address"
- name="./email"
+ bio
- sling:resourceType="granite/ui/components/coral/foundation/form/textarea"
- fieldLabel="Short Bio"
- name="./bio"
- required="{Boolean}false"
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer: A**

Question #:90

A developer creates a custom component. The component dialog includes the following two fields:

```
text
- jcr:primaryType="nt:unstructured"
- sling:resourceType="granite/ui/components/coral/foundation/form/textarea"
- fieldlabel="Text"
- name="./text"

charLimit
- jcr:primaryType="nt:unstructured"
- sling:resourceType="granite/ui/components/coral/foundation/form/numberfield"
- defaultValue="0"
- fieldlabel="Character Limit"
- name="./charLimit"
```

he component should display the first 'X' characters of the text entered in the 'text' input where 'X' is the number entered in the 'charLimit' input. If zero, or no value, is entered in the 'charLimit' input then the text should be unaltered. The developer creates the following Sling Model to perform the truncation:

```
java
@Model(adaptables = SlingHttpServletRequest.class, defaultInjectionStrategy = DefaultInjectionStrategy.OPTIONAL)
public class Truncation {

    @ValueMapValue
    private String text;

    @ValueMapValue
    private Integer charLimit;

    @PostMapValue
    private void init() {
        if (text != null && 0 < charLimit && charLimit < text.length()) {
            text = text.substring(0, charLimit);
        }
    }

    public String getText() {
        return text;
    }
}
```

A Null Pointer Exception occurs if NO charLimit values is set in the component dialog.

What should the developer do to resolve this issue?

- A. Replace the defaultValue="0" attribute of the 'charLimit' field in the dialog with min="0".
- B. Add the @Default annotation to the 'charLimit' variable in the Sling Model.
- C. Replace the defaultValue="0" attribute of the charLimit field in the dialog with defaultValue="{Long}0".
- D. Change the defaultInjectionStrategy of the Truncation Sling Model to DefaultInjectionStrategy.REQUIRED.

**Answer: D**



**Question #:91**

The structure section of an editable template has a locked component.

What happens to the content of that component when a developer unlocks it?

- A. The content stays in the same place but it ignored on pages using the template.
- B. The content is moved to the initial section of the editable template.
- C. The content is deleted after confirmation from the template author.
- D. The content is copied to the initial section of the editable template.

**Answer: B**

**Question #:92**

A custom application contains a service component `com.proj.ServiceComponent`. A developer needs to configure the string value `name` and integer value `intVal`. The actual configuration must be deployed using a content package.

What should the developer do to meet these requirements?

- A. "Use a file `com.proj.ServiceComponent.cfg` with content  
`name=""Service name""`  
`intVal=I""5""`
- B. "Use a file `com.proj.ServiceComponent.config` with content  
`name=""Service name""`  
`intVal=I""5""`
- C. "Use a file `com.proj.ServiceComponent.xml` with content  
`<?xml version=""1.0"" encoding=""UTF-8""?>`  
`<jcr:root jcr:primaryType=""sling:OsgiConfig""`  
`name=""Service Name""`  
`intVal=""5""/>`
- D. "Use a file `com.proj.ServiceComponent.xml` with content

```
<?xml version=""1.0"" encoding=""UTF-8""?>

<jcr:root xmlns:jcr=""http://www.jcp.org/jcr/1.0"" jcr:primaryType=""sling:OsgiConfig""

name=""Service Name""

intVal=""{Integer}5""/>
```

**Answer: B**

### Question #:93

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.

**Answer: C**

**Question #:94**

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

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

**Answer: B**

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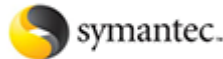
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