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**Vendor:**Adobe

**Exam Code:**AD0-E103

**Exam Name:**Adobe Experience Manager Developer

**Version:**Demo

### QUESTION 1

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. Create a resource folder called "touch" under the Client Library Folder.
- C. Set the channels property on the Client Library Folder to "touch".
- D. Pass the parameter user-agent=\\'touch\\' when referencing the Client Library.

Correct Answer: B

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### QUESTION 2

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.
- B.
- C.
- D.

Correct Answer: C

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

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### QUESTION 3

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"
  - composite="{Boolean}true"
  - fieldLabel="Contact List"
  + 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"
- fieldLabel="Contact List"
- required="{Boolean}true"
+ 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

Correct Answer: A

---

#### 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

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#### QUESTION 5

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

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#### QUESTION 6

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

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

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#### QUESTION 7

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.bar.html/world

B. path/page.bar.html/hello/world

C. path/page.foo.bar.html/hello/world

D. path/page.infinity.json.bar.html/world

Correct Answer: B

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#### QUESTION 8

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. Modify the node `/libs/cq/core/content/nav/sites` by updating the `icr:title` property value.

B. Change the code of `/libs/granite/ui/components/shell/clientlibs/shell/js/globalnav.js` to display the new value.

C. Create a new node `/apps/cq/core/content/nav/sites` and update the property `icr:title`.

D. Modify the code of `/libs/granite/ui/components/shell/globalnav/overlay/overlay.jsp` to display the new value.

Correct Answer: A

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## QUESTION 9

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

Correct Answer: CD

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## QUESTION 10

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

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## QUESTION 11

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



```

2.02.2019 15:21:59.659 *INFO* [OsgiInstallerImpl]
org.apache.sling.installer.core.impl.tasks.BundleStartTask 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 [526] (R 526.0)] osgi.wiring.package; (&(osgi.wiring.package=com.example.customlib)(ve
rsion>=3.8.0)(!(version>=4.0.0))) Unresolved requirements: [[com.adobe.cq.sample-bundle [526] (R 526.0)] osgi.wiring
.package; (&(osgi.wiring.package=com.example.customlib)(version>=3.8.0)(!(version>=4.0.0)))]
    at ....
12.02.2019 15:21:59.671 *INFO* [OsgiInstallerImpl] org.apache.sling.installer.core.impl.tasks.BundleStartTask Could
not start bundle com.adobe.cq.sample-bundle [526]. Reason: {}. Will retry. org.osgi.framework.BundleException: Unab
le to resolve com.adobe.cq.sample-bundle [526] (R 526.0): missing requirement [com.adobe.cq.sample-bundle [526] (R 52
6.0)] osgi.wiring.package; (&(osgi.wiring.package=com.example.customlib)(version>=3.8.0)(!(version>=4.0.0))) Unreso
lved requirements: [[com.adobe.cq.sample-bundle [526] (R 526.0)] osgi.wiring.package; (&(osgi.wiring.package=com.exa
mple.customlib)(version>=3.8.0)(!(version>=4.0.0)))]
    at ....

```

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

- A. 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`.
- B. 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.
- 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 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//libs folder in CRX DE to make it available for the OSGi bundle.

Correct Answer: AE

## QUESTION 12

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

Correct Answer: CE

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