

## Exam Questions AD0-E103

Adobe Experience Manager Developer

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### NEW QUESTION 1

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

### NEW QUESTION 2

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]\$ ks -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:/ignoreUriParams{.../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

### NEW QUESTION 3

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 value

Answer: D

### NEW QUESTION 4

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

### NEW QUESTION 5

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

### NEW QUESTION 6

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

### NEW QUESTION 7

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 ACLs2. Modify the Apache Sling Service User Mapper Service3. Set user.default to com.adobe.aem.samples-bundle:sample-service=systemUser"
- B. "1. Create an AEM User called systemUser with appropriate ACLs2. Modify the Apache Sling Service User Mapper Service3. Set user.default to com.adobe.aem.samples-bundle:sample-service=systemUser"
- C. "1. Create a System User called systemUser with appropriate ACLs2. Modify the Apache Sling Service User Mapper Service Amendment3. Set user.default to com.adobe.aem.samples-bundle:sample-service=systemUser"
- D. "1. Create an AEM User called systemUser with appropriate ACLs2. Modify the Apache Sling Service User Mapper Service Amendment3. Set user.default to com.adobe.aem.samples-bundle:sample-service=systemUser"

Answer: A

### NEW QUESTION 8

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 Message
- B. Configure DEBUG log level on com.day.cq.search to monitor search queries.
- C. Goto Tools > Operations > Diagnosis > Query Performance > Slow Query
- D. Select a Query and Click on Explain
- E. Goto Tools > Operations > Diagnosis > Index Manage
- F. Select the new Indexes and run a consistency check.
- G. Goto Tools > Operations > Diagnosis > Download Thread Dump
- H. Analyze the Thread Dumps to identify long running requests.

Answer: B

### NEW QUESTION 9

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

### NEW QUESTION 10

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

#### NEW QUESTION 10

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

#### NEW QUESTION 14

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: AD

#### NEW QUESTION 19

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

#### NEW QUESTION 24

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

#### NEW QUESTION 26

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

#### NEW QUESTION 30

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

#### NEW QUESTION 32

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

#### NEW QUESTION 33

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