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QUESTION NO: 1

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 NO: 2

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", "reposevice");
    Session session = resolverFactory.getAdministrativeResourceResolver(authen
ticationInfo, resolverFactory.getPassworg("reposevice")).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: B D

QUESTION NO: 3

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 NO: 4

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 NO: 5

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: D

Explanation:

: <https://helpx.adobe.com/ro/experience-manager/kt/sites/using/gettingstarted-wknd-tutorial-develop/part1.html>

QUESTION NO: 6

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 NO: 7

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 NO: 8

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 thirdparty 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 NO: 9

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: C

QUESTION NO: 10

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