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QUESTION 1

Which two annotations can be applied at the class, method, and field levels? (Choose two.)

- A. @EJB
- B. @Init
- C. @Resource
- D. @RolesAllowed
- E. @PostActivate

Correct Answer: AC

A: javax.ejb.EJB Description

Target: Class, Method, Field

Specifies a dependency or reference to an EJB business or home interface.

You annotate a bean's instance variable with the @EJB annotation to specify a dependence on another EJB.

C: javax.annotation.Resource Description

Target: Class, Method, Field

Specifies a dependence on an external resource, such as a JDBC data source or a JMS destination or connection factory.

Incorrect:

B: javax.ejb.Init Description Target: Method

D: javax.annotation.security.RolesAllowed Description Target: Class, Method Specifies the list of security roles that are allowed to access methods in the EJB.

E: javax.ejb.PostActivate Description Target: Method Specifies the lifecycle callback method that signals that the EJB container has just reactivated the bean instance.

Reference: EJB 3.0 Metadata Annotations Reference

QUESTION 2

Given code snippets from two files:



```
7. public class Dog {
8.     public void onMessage(Message m) { System.out.print("1 "); }
9. }
and
10. @MessageDriven
11. class MessageDog extends Dog implements MessageDrivenBean {
12.     MessageDog(Message m) { System.out.print("2 "); }
13. }
```

Which four code changes, when used together, create a valid JMS message-driven bean? (Choose four)

- A. Make class MessageDog public
- B. Make the MessageDog constructor no-arg
- C. Make the MessageDog constructor public
- D. Move the onMessage method to class MessageDog.
- E. Change MessageDog so that it is NOT a subclass of Dog.
- F. Make class MessageDog implement MessageListner instead of MessageDrivenBean.

Correct Answer: ABCF

QUESTION 3

A developer implements a system in which transfers of goods are monitored. Each transfer needs a unique ID for tracking purposes. The unique ID is generated by an existing system which is also used by other applications. For performance reasons, the transaction that gets the unique ID should be as short as possible. The scenario is implemented in four steps which are implemented in four business methods in a CMT session bean:

1. checkGoods	Checks goods in a database
2. getUniqueId	Retrieve the unique ID
3. checkAmount	Checks the amount in a non-transactional system
4. storeTransfer	Stores the transfer in a database as part of the calling transaction.

These methods are called by the addTransfer method of a second CMT session bean in the following order:

checkGoods, getUniqueld, checkAmount, storeTranfer

Assuming no other transaction-related metadata, which is the correct set of transaction attributes for the methods in the session beans?

- A. 0.addTransfer REQUIRED 1.checkGoods REQUIRED 2.getUniqueld REQUIRES_NEW 3.checkAmounts NOT_SUPPORTED 4.storeTransfer MANDATORY
- B. 0.addTransfer REQUIRED 1.checkGoods REQUIRED 2.getUniqueld REQUIRED 3.checkAmounts REQUIRED 4.storeTransfer REQUIRED



C. 0.addTransfer REQUIRED 1.checkGoods REQUIRED 2.getUnigueId REQUIRES_NEW 3.checkAmounts NEVER
4.storeTransfer MANDATORY

D. 0.addTransfer NOT_SUPPORTED 1.checkGoods REQUIRED 2.getUnigueId REQUIRES_NEW 3.checkAmounts
NOT_SUPPORTED 4.storeTransfer MANDATORY

Correct Answer: A

Step 2: Must start a new transaction. use REQUIRES_NEW

Step 3: No need for this step: use Not Supported

Use the NotSupported attribute for methods that don't need transactions. Because transactions involve overhead, this attribute may improve performance.

Step 4: Use Mandatory:

Use the Mandatory attribute if the enterprise bean's method must use the transaction of the client. Note:

*

In an enterprise bean with container-managed transaction (CMT) demarcation, the EJB container sets the boundaries of the transactions. You can use container-managed transactions with any type of enterprise bean: session, or message-driven. Container-managed transactions simplify development because the enterprise bean code does not explicitly mark the transaction's boundaries. The code does not include statements that begin and end the transaction.

*

A transaction attribute can have one of the following values: Required RequiresNew Mandatory NotSupported Supports Never

*

Required Attribute If the client is running within a transaction and invokes the enterprise bean's method, the method executes within the client's transaction. If the client is not associated with a transaction, the container starts a new transaction before running the method.

The Required attribute is the implicit transaction attribute for all enterprise bean methods running with container-managed transaction demarcation. You typically do not set the Required attribute unless you need to override another transaction attribute. Because transaction attributes are declarative, you can easily change them later.

*

RequiresNew Attribute

If the client is running within a transaction and invokes the enterprise bean's method, the container takes the following steps:

Suspends the client's transaction

Starts a new transaction

Delegates the call to the method

Resumes the client's transaction after the method completes

If the client is not associated with a transaction, the container starts a new transaction before running the method.



You should use the RequiresNew attribute when you want to ensure that the method always runs within a new transaction.

*

Mandatory Attribute

If the client is running within a transaction and invokes the enterprise bean's method, the method executes within the client's transaction. If the client is not associated with a transaction, the container throws the TransactionRequiredException.

Use the Mandatory attribute if the enterprise bean's method must use the transaction of the client.

*

NotSupported Attribute

If the client is running within a transaction and invokes the enterprise bean's method, the container suspends the client's transaction before invoking the method. After the method has completed, the container resumes the client's transaction.

If the client is not associated with a transaction, the container does not start a new transaction before running the method.

Use the NotSupported attribute for methods that don't need transactions. Because transactions involve overhead, this attribute may improve performance. Reference: The Java EE 5 Tutorial, Container-Managed Transactions

QUESTION 4

Which statement is correct about a Java EE client of a message driven bean?

- A. The client can use JNDI to obtain a reference to a message destination.
- B. The client can use JNDI to obtain a reference to a dependency injection.
- C. The client can use JNDI to obtain a reference to a message-driven bean instance.
- D. The client can use JNDI to look up a reference to the message-driven bean's home interface.

Correct Answer: A

QUESTION 5

Given the following stateful bean:

10.

@Stateful

11.

@TransactionAttribute(TransactionAttributeType.SUPPORTS)



12.

```
public class VideoBean implements video {
```

13.

```
// insert code here
```

14.

```
public void method () {}
```

15.

```
}
```

Assuming no other transaction-related metadata, which code can be added at line 13 to guarantee that business method methodA will execute only if invoked with an active transaction?

- A. @TransactionAttribute ()
- B. @transactionmanagement(TransactionAttributeType.CONTAINER)
- C. @TransactionAttribute(transactionAttributeType.MANDATORY)
- D. @transactionAttribute(TransactionattributeType.REQUIRES_NEW)

Correct Answer: C

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