

# 1Z0-860<sup>Q&As</sup>

Java Enterprise Edition 5 Business Component Developer Certified  
Professional Exam

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### QUESTION 1

Which statement is true about both stateful session beans and stateless session beans?

- A. Bean instances are NOT required to survive container crashes.
- B. Any bean instance must be able to handle concurrent invocations from different threads.
- C. A bean with bean-managed transactions must commit or roll back any transaction before returning from a business method.
- D. The container passivates and activates them using methods annotated with `@PrePassivate` and `@PostActivate` annotations.

Correct Answer: A

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### QUESTION 2

A Java Persistence application wants to use optimistic locking. Which statement that describes the functionality of optimistic locking is correct?

- A. The Version attribute of an entity using optimistic locking can be mapped to a secondary table.
- B. Optimistic locking can be used by Java Persistence applications to set optimistic locks on tables in the database.
- C. The Version attribute of an entity using optimistic locking is verified each time the instance is loaded from the database.
- D. Optimistic locking ensures that updates or deletes are consistent with the current state of the database and that intervening updates are not lost.

Correct Answer: D

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### QUESTION 3

A Java EE 5 Application server has four different security realms for user management. One of the security realms is custom made. This realm supports only individual user entries, no grouping of users, and is used by the application. Which two statements are true? (Choose two.)

- A. EJB developers cannot use the `isCallerInRole` method.
- B. The annotation `@RunAs("AAA")` can still be used for this application.
- C. All security roles need a role-link entry in the deployment descriptor.
- D. All security roles can be mapped successfully to individual users in the realm.

Correct Answer: BD

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#### QUESTION 4

Which statement about the combination of mapping defaults, annotations, and XML descriptors is correct?

- A. All mapping annotations must always be processed by the persistence provider.
- B. Some annotations, like the @Entity annotation, must always be processed by the persistence provider.
- C. The mapping information for an entity class specified by annotations and in XML descriptors must be distinct.
- D. If multiple entity listeners are defined, the order in which they are invoked can be defined or overwritten in the XML descriptor.

Correct Answer: D

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#### QUESTION 5

A session bean's business method invokes UserTransaction.setRollbackOnly and receives an IllegalStateException. Under which circumstance can this happen?

- A. The bean is using bean-managed transactions regardless of whether there is an active transaction.
- B. There is no circumstance that would cause setRollbackOnly to throw an IllegalStateException.
- C. The bean is using bean-managed transaction demarcation, and UserTransaction.begin has NOT been invoked.
- D. The setRollbackOnly method is invoked within a bean-managed transaction, and UserTransaction.commit has NOT been invoked.

Correct Answer: C

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#### QUESTION 6

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

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

Correct Answer: AC

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### QUESTION 7

Which statement about the JoinTable annotation is true?

- A. It must be applied to a unidirectional many-to-one association.
- B. It can be applied to the owning side of a many-to-many association.
- C. It must be applied to the owning side of a unidirectional one-to-many association.
- D. If the name attribute is not specified it is derived from the names of the primary keys of the two entities involved in the association.

Correct Answer: B

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### QUESTION 8

The Java Persistence API defines the Query interface. Which two statements about the Query.executeUpdate method are true? (Choose two.)

- A. It must always be executed within a transaction.
- B. It throws a PersistenceException if no entities were updated.
- C. It throws an IllegalStateException if called on a Query instance created with a Java Persistence SELECT query.
- D. All managed entity objects corresponding to database rows affected by the update will have their state changed to correspond with the update.

Correct Answer: AC

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### QUESTION 9

An Application Assembler is given the following stateless session bean:

10.

```
©Stateless public class MyBean implements MyInt {
```

11.

```
@RolesAllowed("SECRET")
```

12.

```
public void methodA(int x) {}
```

13.

```
public void methodA(String y) {}
```

14.

```
public void methodB(String z) {}
```

15.

```
}
```

A deployment descriptor is also supplied, a portion of which reads as follows:

20.

21.

AGENT

22.

23.

MyBean

24.

methodA

25.

26.

Which statement is true?

- A. A client in any role will be able to access any of the methods.
- B. A client in the role "AGENT" will be able to access any of the methods.
- C. A client in the role "SECRET" will be able to access any of the methods.
- D. A client in the role "AGENT" will be able to access methodB and methodA(String), but not methodA(int).
- E. A client in the role "SECRET" will be able to access methodA(int) and methodB, but NOT methodA(String).

Correct Answer: B

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#### QUESTION 10

A developer is working on a user registration application using EJB 3.0. A business method registerUser in stateless session bean RegistrationBean performs the user registration. The registerUser method executes in a transaction context started by the client. If some invalid user data causes the registration to fail, the client invokes registerUser

again with corrected data using the same transaction. Which design can meet this requirement?

- A. Have registerUser method call EJBContext.setRollbackOnly() after registration fails.
- B. Have registerUser method throw javax.ejb.EJBTransactionRequiredException after registration fails.
- C. Have registerUser method throw EJBException without marking the transaction for rollback, after registration fails.
- D. Create an application exception with the rollback attribute set to false and have registerUser method throw it after registration fails.

Correct Answer: D

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### QUESTION 11

OldBarBean is a stateless session bean written to the EJB 2.1 API with remote home interface OldBarHome and remote component interface OldBar. FooBean is a stateless session bean written to the EJB 3.0 API. OldBarBean and FooBean are the only EJBs packaged in the ejb-jar. The FooBean portion of the ejb-jar.xml also declares an ejb-ref whose ejb-ref-name is ejb/oldBar. The ejb-ref is linked to OldBarBean. There are no other ejb dependencies defined. A business method foo in FooBean needs to access OldBarBean. Which is portable code to achieve this goal?

- A. `@Remote private OldBar oldBar;`
- B. `public void fooQ { try { InitialContext ic = new InitialContext(); Object obj = ic.lookup("ejb/oldBar"); OldBarHome oldBarHome = (OldBarHome) PortableRemoteObject.narrow(obj, OldBarHome.class); OldBar oldBar = oldBarHome.create();`
- C. `@EJB private OldBarHome oldBarHome; public void fooQ { try { OldBar oldBar = oldBarHome.create();`
- D. `public void fooQ { try { InitialContext ic = new InitialContext(); OldBarHome oldBarHome = (OldBarHome) ic.lookup("ejb/oldBar"); OldBar oldBar = oldBarHome.create();`

Correct Answer: C

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### QUESTION 12

Given a stateless session bean with container-managed transaction demarcation, from which two methods can a developer access another enterprise bean? (Choose two.)

- A. beanconstructor
- B. Timeout callback method
- C. PreDestroy lifecycle callback method
- D. PostConstruct lifecycle callback method
- E. businessmethod from the business interface

Correct Answer: BE

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### QUESTION 13

A developer writes two session beans which cooperate. The first session bean, ShoppingCart, collects orders and is implemented as a stateful session bean. The second session bean, CalculateDiscount, is implemented as a stateless session bean and runs on a different server. ShoppingCart contains the method getTotalPrice, which calculates the total price of the order in the ShoppingCart, including discounts. Discounts are calculated by CalculateDiscount using the information on the ShoppingCart bean, combined with data from a database. Which scenario can accomplish this?

- A. The CalculateDiscount offers a method calculate which is invoked by the ShoppingCart bean passing the this reference.
- B. The CalculateDiscount offers a method calculate which is invoked by the ShoppingCart bean. CalculateDiscount accesses the ShoppingCart instance by JNDI lookup.
- C. The CalculateDiscount offers a method calculate which is invoked by the ShoppingCart bean passing its reference obtained from the SessionContext.getBusinessObject method.
- D. The CalculateDiscount offers a method calculate which is invoked by the ShoppingCart bean. CalculateDiscount accesses the state of ShoppingCart by dependency injection.

Correct Answer: C

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### QUESTION 14

Given a stateless session bean with container-managed transaction demarcation, from which two methods can a developer access another enterprise bean? (Choose two.)

- A. beanconstructor
- B. Timeout callback method
- C. PreDestroy lifecycle callback method
- D. PostConstruct lifecycle callback method
- E. businessmethod fromthebusiness interface

Correct Answer: BE

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### QUESTION 15

Which two statements about the EJBContext. isCallerInRole method are correct? (Choose two.)

- A. Message-driven beans must NOT call the isCallerInRole method.
- B. The isCallerInRole method may be called in a session bean constructor.
- C. The isCallerInRole method can be called in any business method of a stateless or a stateful session bean.
- D. The isCallerInRole method can be called in the PostConstruct and PreDestroy lifecycle callback methods of a stateless session bean.

Correct Answer: AC

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