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QUESTION 1


Suppose developer wants to create an EJB component that performs data validation every hour. Given the following Stateless session bean:

```
@Stateless
public class OrderVerificationBean {

    public void startVerificationTimer() {
        // create an hourly timer
    }

    private void verifyExternalOrders() {
        // do something
    }

    public void stopVerificationTimer() {
        // cancel the timer
    }
}
```



What is the minimum modification you would need to make to the bean to support notification from the TimerService once the timer expires?

- A. Modify the verify external orders method to look like this: `@TimedOut private void verifyExternalOrders () { // do something }`
- B. Modify the verify external orders method to look like this: `@EjbTimeOut private void verifyExternalOrders () { // do something }`
- C. Modify the verify external orders method to look like this: `@ejbTimeOut private void verifyExternalOrders () { // do something }`
- D. Modify the verify external orders method to look like this:

```
@TimeOut
```

```
private void verifyExternalOrders () {
```

```
// do something
```

```
}
```

Correct Answer: D

Programmatic Timers

When a programmatic timer expires (goes off), the container calls the method annotated `@Timeout` in the bean's implementation class. The `@Timeout` method contains the business logic that handles the timed event.



The @Timeout Method

Methods annotated @Timeout in the enterprise bean class must return void and optionally take a javax.ejb.Timer object as the only parameter. They may not throw application exceptions.

@Timeout

```
public void timeout(Timer timer) {  
  
    System.out.println("TimerBean: timeout occurred");  
  
}
```

Reference: The Java EE 6 Tutorial, Using the Timer Service

QUESTION 2

A developer needs to deliver a large-scale enterprise application that connects developer chooses an EJB 3.1-compliant application server, which three are true about the EJB business component tier? (Choose three.)

- A. Load-balancing is NOT a guarantee for all EJB 3.1 containers.
- B. Clustering is guaranteed to be supported by the EJB 3.1 container.
- C. Thread pooling can be optimized by the Bean Provider programmatically.
- D. Bean Providers are NOT required to write code for transaction demarcation.
- E. Support for server fail-over is guaranteed for an EJB 3.1-compliant application server.
- F. EJB 3.1 compliant components are guaranteed to work within any Java EE 6 application server

Correct Answer: ACF

The EJB tier hosts the business logic of a J2EE application and provides system-level services to the business components problems include state maintenance, transaction management, and availability to local and remote clients. The EJB 3.1 specification does not address "high-end" features like clustering (not B), load-balancing (A) and fail-over (not E).

F: The target platform for EJB is Java EE.

QUESTION 3

An enterprise developer needs to modify the order of interceptor method execution specified by the Bean Provider, but does NOT have access to the bean's source code. No deployment descriptor was provided in the EJB jar delivered by the

Bean Provider.

Which represents the solution to this problem?

- A. No solution is possible under these conditions.




- B. The Deployer can add metadata annotations to the ejb-jar.
- C. The Application Assembler can add metadata annotations to the ejb-jar.
- D. The System Administrator can add interceptor binding information at runtime, using vendor- specific tools.
- E. The Application Assembler can add a deployment descriptor to the ejb-jar that includes interceptor binding information.

Correct Answer: E

QUESTION 4

You are writing a client that sends a message to a JMS queue. The client includes the following code snippet:

```
MessageProducer producer = session.createProducer(queue);  
MapMessage message = session.createMapMessage();  
message.setString("Item", "Computer");  
message.setInt("Quantity", 3);  
producer.send(message, DeliveryMode.NON_PERSISTENT, 3, 100);
```



- A. The message can be consumed by durable subscriber.
- B. In the first line, the argument to the createProducer method needs to be cast to a Destination.
- C. The message is sent using non-default deliver mode, priority, and expiration time values.
- D. You could add more name-value pairs to the message body of the MapMessage if they were required by your application.

Correct Answer: D

createMapMessage

MapMessage createMapMessage()

throws JMSEException

Creates a MapMessage object. A MapMessage object is used to send a self-defining set of name- value pairs, where names are String objects and values are primitive values in the Java programming language.

Reference: javax.jms, Interface Session

QUESTION 5

Which must result in the destruction of a stateful session bean?

- A. A client calls an @Remove method and the method returns successfully.
- B. The server in which the stateful session bean was created is restarted.
- C. The stateful session bean participates in a transaction that is rolled back.



D. The stateful session bean is chosen as a last recently used (LRU) victim for passivation.

Correct Answer: A

While in the ready stage, the EJB container may decide to deactivate, or passivate, the bean by moving it from memory to secondary storage. (Typically, the EJB container uses a least-recently-used algorithm to select a bean for passivation.) The EJB container invokes the method annotated `@PrePassivate`, if any, immediately before passivating it. If a client invokes a business method on the bean while it is in the passive stage, the EJB container activates the bean, calls the method annotated `@PostActivate`, if any, and then moves it to the ready stage.

Note:

At the end of the lifecycle, the client invokes a method annotated `@Remove`, and the EJB container calls the method annotated `@PreDestroy`, if any. The bean's instance is then ready for garbage collection.

*

When a stateful bean is passivated, the instance fields are read and then written to the secondary storage associated with the EJB object. When the stateful session bean has been successfully passivated, the instance is evicted from memory; it is destroyed.

*

When a passivated bean instance times out or when a client invokes the method marked with `@Remove`, the container may destroy the bean. Before destroying, the container will invoke the method annotated with `@PreDestroy`.

Reference: The Java EE 6 Tutorial, The Lifecycles of Enterprise Beans

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