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QUESTION 1

Given singleton bean FooEJB:

```
@Singleton
public class FooEJB {

    public long convertDaysToHours(long numDays) {
        if( numDays < 0 ) {
            throw new EJBException("Invalid num days = " + numDays);
        }

        return numDays * 24;
    }
}

A caller acquires an EJB reference to FooEJB in variable fooRef and executes:

100.
101. try {
102.     fooRef.convertDaysToHours(-1);
103. } catch(Throwable t) {}
104.
105. fooRef.convertDaysToHours(10);
106.
```

How many distinct FooEJB bean instances will be used to process the code on the lines 101-105?

- A. 0
- B. 1
- C. 2

Correct Answer: B

Java has several design patterns Singleton Pattern being the most commonly used. Java Singleton pattern belongs to the family of design patterns, that govern the instantiation process. This design pattern proposes that at any time there can only be one instance of a singleton (object) created by the JVM.

QUESTION 2

A developer writes a Singleton bean that holds state for a single coordinate:




```
@Singleton
public class CoordinateBean {

    public static class Coordinate { int x; int y; }

    private Coordinate c = new Coordinate();

    public Coordinate getCoordinate() { return c; }

    public void setCoordinate(int newX, int newY) {
        c.x = newX;
        c.y = newY;
    }
}
```



An update thread acquires an EJB reference to CoordinateBean and alternates between invoking SetCoordinate (0, 0) and SetCoordinate (1, 1) in a loop.

At the same time, ten reader threads each acquire an EJB reference to CoordinateBean and invoke getCoordinate () in a loop.

Which represents the set of all possible coordinate values [X, Y] returned to the reader threads?

- A. [0, 0]
- B. [1, 1]
- C. [0, 0], [1, 1]
- D. [0, 0], [0, 1], [1, 0], [1, 1]

Correct Answer: C

QUESTION 3

How many interceptor classes can be applied to a single stateful session bean?

- A. a maximum of one
- B. any number may be applied
- C. one for each business method
- D. one for each business interface

Correct Answer: B

The @Interceptors annotation can take an array of classes, so you can bind more than one class- level interceptor this way, e.g.

@Stateless



```
@Interceptors ({TracingInterceptor.class, SomeInterceptor.class}) public class EmailSystemBean {  
...  
}
```


Reference: EJB Interceptors

<http://docs.jboss.org/ejb3/app-server/tutorial/interceptor/interceptor.html>

QUESTION 4

MyMsgBean is a JMS message-driven with container-managed transaction demarcation. FooBean is an EJB 3.x stateless session bean that sends messages to the JMS destination with which MyMsgBean is associated. MyMsgBean's message listener method has transaction attribute REQUIRED, and is defined as follows:

```
10. public class MyMsgBean implements javax.jms.MessageListener {  
11.     public void onMessage(javax.jms.Message message) {  
12.         // do some work not shown here  
13.         throw new RuntimeException("unexpected error...");  
14.     }  
}
```



Which statement is true about the result of the message processing?

- A. FooBean receives javax.ejb.EJBException.
- B. The container discards the MyMsgBean bean instance.
- C. FooBean receives the original RuntimeException thrown from the message listener method.
- D. The container does NOT roll back the transaction, and FooBean can continue the transaction.

Correct Answer: B

Note:

* 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.

QUESTION 5

FooBean and BarBean are both EJB 3.x stateless session beans with bean-managed transaction demarcation. The business method foo in FooBean starts a UserTransaction and invokes the business method bar in BrBean. Given:



```
10. public class BarBean {
11.     public void bar() throws MyAppException {
12.         throw new MyAppException("business logic error.");
13.     }
}
```



What is the expected result of this method invocation assuming control reaches Line 12?

- A. FooBean.foo method receives MyAppException.
- B. The container discards the BarBean bean instance.
- C. FooBean.foo method receives a javax.ejb.EJBException that wraps MyAppException.
- D. FooBean.foo method receives javax.transaction.TransactionRolledbackException.

Correct Answer: D

The transaction will roll back. Note:

* In bean-managed transaction demarcation, the code in the session or message-driven bean explicitly marks the boundaries of the transaction. Although beans with container-managed transactions require less coding, they have one limitation: When a method is executing, it can be associated with either a single transaction or no transaction at all. If this limitation will make coding your bean difficult, you should consider using bean-managed transactions.

Reference: The Java EE 5 Tutorial, Bean-Managed Transactions

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