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# 000-287

## IBM

*Enterprise Application Development with IBM Web Sphere Studio, V5.0*

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**QUESTION 1:**

A customer's enterprise application is developed with a strong focus on performance and scalability on IBM WebSphere Application Server V.5 Several database vendors have to be supported. The enterprise developer decides to encapsulate calls to entity beans by façade session beans.

Which design for the entity beans would fit BEST?

- A. CMP entity beans providing local interfaces
- B. CMP entity bean providing remote interfaces
- C. BMP entity beans providing local interfaces
- D. BMP entity beans providing remote interface

Answer: A

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**QUESTION 2:**

While testing the create method of a CMP entity bean using the Universal Test Client of IBM WebSphere Studio Application Developer, the following exception is thrown:

Exception: COM.ibm.db2.jdbc.DB2Exception:[IBM][CLI Driver][DB2/NT] SQL0803N one or more value in the INSERT statement, UPDATE statement, or foreign key update caused by a DELETE statement are not valid because the primary key, unique constraint or unique index identified by "1" CONSTRAINS TABLE "library.patron" FROM HAVING DUPLICATE ROWS FOR THOSE COLUMNS. Sqlstate = 23505  
Which of the following should the developer suspect?

- A. The Data source in the Server Configuration is wrong.
- B. The ejbCreate method has a bug.
- C. The create method has a bug
- D. The ejbPostCreate method has a bug

Answer: B

---

**QUESTION 3:**

To effectively manage its working set, a container may reuse bean instances. What are the coding best practices that a developer should follow when developing EJBs?

- A. Any bean initialization which utilizes EJB environment properties should be performed in the setSessionContext, setEntityContext, setMessageDrivencontext methods.
- B. Implement ejbActivate to restore all non-persistent instance state
- C. Serialize the EJB's state within the ejbPassivate method.
- D. Design the bean so that it only contains persistent state.
- E. Mark a field as transient if it should not be serialized

Answer: A,B,C

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**QUESTION 4:**

The creation of a stateful session bean involves a sequence of operations performed by the container to satisfy a client's create request. Which of the following is the correct ordering of operations?

1. creating the EJBObject
2. Creating the bean instance
3. Invoking ejbCreate on bean instance
4. Setting the SessionContext on the bean instance

- A. 2,4,3,1
- B. 2,1,3,4
- C. 1,2,4,3
- D. 1,2,3,4

Answer: C

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**QUESTION 5:**

A IBMBankOnline.com customer with multiple accounts can transfer funds from one account to another. When transferring funds, source and destination accounts cannot be the same. Assuming the Account object is uniquely identifiable by the customer number and account type, what task should NOT be performed to complete this requirement?

- A. Define a serializable Accountkey class.
- B. Declare the two fields that uniquely identify an account as public members of the Accountkey class.
- C. Implement the equals and hashCode methods on the Accountkey class.
- D. Override the EJBObject's isIdentical method in the Account bean class.

Answer: D

---

**QUESTION 6:**

While testing an enterprise application using the Universal Test Client of IBM WebSphere Studio, an exception is thrown. The developer sets breakpoints in the suspected code, and finds that the exception is thrown at 'A'

```
//<Deserialization Handle>
```

```
Handle cartHandle=...;//deserializa from a file...
```

```
Cart cart = (Cart)cartHandle.getEJBObject(); // <..."A"
```

```
Cart.purchase();
```

```
Cart.remove();
```

Which of the following lines of code will help correct this exception?

- A. (EJBObject)javax.rmi.PortableRemoteObject.narrow(cartHandle.getEJBObject(), Cart.class)
- B. (EJBObject) (cartHandle.getEJBObject())
- C. Javax.rmi.PortableRemoteObject.narrow(cartHandle.getEJBObject(), Cart.class)
- D. (Cart)javax.rmi. PortableRemoteObject.narrow(cartHandle.getEJBObject(), Cart.class)

Answer: D

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### **QUESTION 7:**

After creating a message-driven bean (MDB) in a new workspace, a developer codes the business logical for the bean. How can the developer proceed to test the function of the MDB? (Assume server configuration is correct and server has started.)

- A. Select the MDB and from it's context menu select Run on Server.
- B. Use the EJB test client to call the onMessage method of the bean.
- C. Use the EJB test client to place a message on the listener port for the MDB.
- D. Develop a Java Client application that uses JMS to place a message on the MDB's destination.

Answer: D

---

### **QUESTION 8:**

A developer has designed entity beans based on the domain model and needs to map the persistent fields with an existing legacy database. Which technique is BEST when using WebSphere studio Application Developer?

- A. top-down mapping
- B. meet-in-the-middle mapping
- C. bottom-up mapping
- D. FIELDS-TO-COLUMNS MAPPING

Answer: B

---

### **QUESTION 9:**

An enterprise application is located on a server machine and is performing poorly. The servlets are accessing entity beans on the server. The server load is heavy and database activity is moderate. To BEST improve the application's performance the developer should:

- A. Create more indexes on the database.
- B. Use client - side transactions in the application.
- C. Use session beans on the server to apply multiple changes at a time.
- D. Add memory to the server.



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