

**Exam : IBM 000-484**

**Title : Enterprise connectivity with  
j2ee v1.3**

**Version : Demo**

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1. A developer successfully creates and tests a stateful Session Bean. Following deployment, intermittent NullPointerExceptions begin to occur, particularly when the server is heavily loaded. Which bean method is MOST likely to be related to the problem?

- A. setSessionContext
- B. ejbCreate
- C. ejbPassivate
- D. beforeCompletion
- E. ejbLoad

**Answer: C**

2. A developer implements a BMP entity bean which uses a relational database. Identify the lifecycle methods that involve database access.

- A. ejbCreate()
- B. ejbPostCreate()
- C. ejbActivate()
- D. ejbPassivate()
- E. ejbRemove()

**Answer: AE**

3. An EJB that is deployed with container-manager transaction contains a business method. This method performs an operation that potentially throws a NullPointerException. If this occurs, the bean cannot recover and should rollback its transaction. What is the BEST way to implement this scenario?

- A. Catch the NullPointerException exception, then throw an application exception. The container will rollback the transaction automatically.
- B. Catch the NullPointerException exception, then throw an application exception that wraps the original exception. The container will rollback the transaction automatically.
- C. Catch the NullPointerException exception, call setRollbackOnly(), thus forcing a rollback of the transaction, then throw an application exception.
- D. Do nothing and let the NullPointerException propagate to the container. The container will rollback the transaction automatically.

**Answer: C**

4. Which of the following are TRUE regarding ejbPostCreate() methods?

- A. Only entity beans have ejbPostCreate() methods.
- B. ejbPostCreate() method signatures must match ejbCreate() method signatures.
- C. ejbPostCreate() methods are optional.
- D. Corresponding postCreate() methods exist in the bean's home interface.
- E. ejbPostCreate() is called by the EJB container following creation of the bean's EJBObject.

**Answer: ABE**

5. Which of the following represents the order in which a stateful session bean's methods might get executed, according to its life cycle?

- A. `ejbPassivate()`, `setSessionContext()`, `ejbActivate()`, `ejbRemove()`.
- B. `ejbActivate()`, `setSessionContext()`, `ejbPassivate()`, `ejbRemove()`.
- C. `setSessionContext()`, `ejbActivate()`, `ejbPassivate()`, `ejbRemove()`.
- D. `setSessionContext()`, `ejbPassivate()`, `ejbActivate()`, `ejbRemove()`.

**Answer: D**

6. An EJB is required to hold a customer's address information. This information must be made available to future customer transactions. The bean must be deployable to any EJB server. The exact server runtime configuration is unknown. Which bean type BEST suits these requirements?

- A. A stateless session bean.
- B. A stateful session bean.
- C. A BMP entity bean.
- D. A CMP entity bean.
- E. A message-driven bean.

**Answer: D**

7. The remote home interface for an EJB only contains a single method. The signature of this method is `create(int xyz)`. What type of bean MUST it be?

- A. stateless session bean
- B. stateful session bean
- C. BMP entity bean
- D. CMP entity bean
- E. message-driven bean

**Answer: B**

8. Two entity beans share a bidirectional, container-managed relationship (CMR). What statements are TRUE regarding these beans? .

- A. None of the entity beans need to have a local interface.
- B. Only one of the two entity beans MUST have a local interface; the other bean can have either a remote or a local interface.
- C. Both entity beans MUST have local interfaces.
- D. None of the entity beans have to be container-managed-persistence (CMP) beans.
- E. Only one of the two entity beans MUST be a container-managed-persistence (CMP) bean. The other bean can be either a container-managed (CMP) or bean-managed (BMP) bean.
- F. Both entity beans must be container-managed persistence (CMP) beans.

**Answer: CF**

9. Which of the following are TRUE about primary keys and entity beans?

- A. All entity beans must have a findByPrimaryKey(primaryKey) method implemented in the bean class.
- B. All entity beans must have a findByPrimaryKey(primaryKey) method declared in each home interface.
- C. All primary key classes must be legal value types in RMI-IIOP.
- D. A custom primary key class must be defined.
- E. Entity beans must be located using the findByPrimaryKey(primaryKey) method.

**Answer: BC**

10. An EJB is required to model the catalog object of a "J2EE Book Store". The catalog object represents different categories and products and provides browsing and searching services to its clients. Also, it only reads catalog data from the underlying database. Which of the following designs BEST suits the requirement?

- A. stateless session bean with Data Access Object (DAO)
- B. stateful session bean with Data Access Object (DAO)
- C. BMP entity bean with DAO Data Access Object (DAO)
- D. CMP entity bean

**Answer: A**

11. An EJB is required to process order fulfillment. No immediate reply is required by the client, but a confirmation email is expected instead when the order is fulfilled. Which bean type BEST suits the requirements?

- A. stateless session bean
- B. stateful session bean
- C. BMP entity bean
- D. CMP entity bean
- E. message-driven bean

**Answer: E**

12. A developer sets up a topic with a message-driven bean. During testing, the developer notes that messages are lost when a client disconnects. What possible changes will ensure that all unexpired messages are delivered when a client has been disconnected?

- A. Use a queue instead of a topic.
- B. Code the onMessage() method in the client code so that no acknowledgement is sent until after the messages have completed processing.
- C. Specify <subscription-durability>Durable</subscription-durability> in the deployment descriptor for the topic.
- D. Design the client code to implement the javax.jms.MessageListener interface.

**Answer: AC**

13. An EJB client initializes and begins a transaction. It then invokes a bean business method. The bean uses container-managed transaction demarcation. The business method executes within the scope of the client supplied transaction. Which of the following are possible values for the bean method's transaction attribute?

- A. NotSupported
- B. Supports
- C. Required
- D. RequiresNew
- E. Mandatory

**Answer: BCE**

14. Which of the following are TRUE regarding CMP entity beans that conform to the EJB 2.0 specification?

- A. Container managed fields must be declared as public.
- B. The primary key definition is stored in the deployment descriptor and can be determined at deployment time.
- C. The EJB QL statements for any finder methods are stored in the deployment descriptor.
- D. Moving the CMPs database to a different server (machine) requires recompilation of the bean.

**Answer: BC**

15. A stateful Session bean is deployed using the container-managed transaction demarcation attribute RequiresNew. Which of the following are TRUE regarding exceptions in its business methods?

- A. Transaction rollback occurs automatically when an application exception is thrown.
- B. Transaction rollback occurs automatically when a system exception is thrown.
- C. Transaction rollback restores bean state.
- D. If EJBException is thrown by a business method, it must be declared in its throws clause.
- E. Application exceptions should normally be passed directly through to the caller.

**Answer: BE**

16. A common banner greeting the current user is required by several JSPs. The logic for building this banner is already available in a page named "banner.jsp". Many future enhancements, such as adding the user's account number, are planned for the banner. Which of the following MUST be used in JSPs that use the banner, such that these JSPs need not be updated every time the banner is updated?

- A. `<%@ include file="banner.jsp"%>`
- B. `<jsp:include page="banner.jsp" />`
- C. `<jsp:forward page="banner.jsp" />`
- D. `<jsp:include url="banner.jsp" />`
- E. `<jsp:forward url="banner.jsp" />`

**Answer: B**

17. There is a requirement to implement a Filter called ClickFilter that will be invoked for every servlet invocation, in order to remember a User's click trail. Additionally, servlets that perform an update action need to be configured with an AuditFilter that logs the time the update occurred, the values before update and the value after update and the user id performing the update. All update servlets have /update in their context path and extend a base servlet class called UpdateServlet. Which of the following Filter configurations MUST be used to satisfy these requirements?

A. `<filter-mapping>`

`<filter-name>ClickFilter</filter-name>`

`<url-pattern>/*</url-pattern>`

`</filter-mapping>`

B. `<filter-mapping>`

`<filter-name>ClickFilter</filter-name>`

`<servlet-name>/*<servlet-name>`

`</filter-mapping>`

C. `<filter-mapping>`

`<filter-name>AuditFilter</filter-name>`

`<servlet-name>/UpdateServlet</servlet-name>`

`</filter-mapping>`

D. `<filter-mapping>`

`<filter-name>AuditFilter</filter-name>`

`<url-pattern>/update/*</url-pattern>`

`</filter-mapping>`

**Answer: AD**

18. To optimize resource usage, a developer would like to explicitly release resources associated with a particular HttpSession when the session times out or the user logs out. Which of the following tasks MUST be performed to implement this requirement?

A. Implement the `javax.servlet.http.SessionPassivationListener` interface.

B. Implement the `javax.servlet.http.HttpSessionListener` interface.

C. Implement the `javax.servlet.http.HttpSessionBindingListener` interface.

D. Configure the listener implementation in the Web application deployment descriptor.

E. Configure the listener implementation in the enterprise application deployment descriptor.

**Answer: BD**

19. Which of the following steps should be performed to make use of Tag libraries in the MOST flexible manner?

- A. Install the Tag implementation JAR file in the WEB-INF\lib directory.
- B. Define a URI for the Tag library, using the <uri> element in TLD.
- C. Define the physical location for the tag library in the web application deployment descriptor.
- D. Import the tag library in the JSP using the uri attribute of the taglib directive.
- E. Import the tag library in the JSP directly using its physical location.
- F. Create a separate directory to install the Tag implementation JAR files.

**Answer:** BCD

20. Which of the following statements are true with regard to JSP pages written using XML syntax?

- A. The <jsp:root> element is used to introduce the namespace for custom tags in the page.
- B. A JSP source file can intermix standard JSP syntax and XML source file.
- C. A JSP source file in XML syntax CAN include via a directive, a JSP source file in JSP syntax.
- D. A JSP source file in JSP syntax CANNOT include via a directive, a JSP source file in XML syntax.
- E. A <jsp:id> attribute MUST be provided for every tag library to display translation time error messages.

**Answer:** AC

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