

Exam : IBM 000-287

**Title : Test287,enterprise
appl.dev.with websphere
studio v5.0**

Version : Demo



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1. A developer discovers that an exception being thrown from a business method on an entity bean does not cause the transaction to rollback; a rollback was expected. What would correct this problem?

- A. Ensure that the business method throws an instance of `javax.jts.TransactionRolledbackException`.
- B. Ensure that the business method marks the current transaction for rollback by calling the `setRollbackOnly()` method on the `EJBContext`.
- C. Call `rollback()` on the current `UserTransaction` object.
- D. Call `rollback()` on the `EJBContext`.
- E. call `setRollbackOnly()` on the `UserTransaction` object.

Answer: B

2. A developer is writing a `task()` method, in a session bean, which makes use of several entity beans to perform a task. The session bean must record the invocation of the task using a `LogEntry` entity bean. The log entry must NOT be made if the task fails. Assume that the `LogEntry` bean is configured with 'Supports'. In order to GUARANTEE this behavior, the `task()` method of the session bean should be configured as:

- A. bean-managed transaction and explicitly begin an `UserTransaction` before creating the `LogEntry` instance and performing the task logic. Finally, have the `task()` method commit or rollback the transaction based on the success/failure of the task.
- B. 'Supports'. Within the `task()` method, create the `LogEntry` instance and perform the task logic. Finally, have the task method() call `sessionContext.setRollBackOnly()` if the task logic fails.
- C. 'RequiresNew'. Within the method, create the `LogEntry` instance and perform the task logic. Finally, have the `task()` method call `sessionContext.setRollBackOnly()` if the task fails.
- D. 'Mandatory'. Within the method, create the `LogEntry` instance and perform the task logic. Finally, have the `task()` method call `sessionContext.setRollBackOnly()` if the task fails.

Answer: AC

3. While developing an EJB for an EJB 2.0 compliant server, a developer runs into a problem. Whenever the method `ejbContext.getUserTransaction()` is called, an `IllegalStateException` is thrown. Which of the following are possible causes for this behavior?

- A. The bean is an entity bean.
- B. The bean is a session bean.
- C. A transaction has not been started.
- D. Container-managed transaction demarcation is being used.

Answer: AD

4. `Customer` and `Address` are BMP entity beans. The `ejbCreate` method for `Customer` is passed values for the properties of the `Customer's` address and it is necessary to ensure that an `Address` Entity is created as part of the same transaction that creates the `Customer`. Assuming the `Address` requires a reference to the `Customer` and there are no foreign key constraints enforced by the database, the BEST way to create the

Address is to:

- A. Insert the Address data into the address table in the ejbCreate method of Customer.
- B. Insert the Address data into the address table in the ejbPostCreate method of Customer.
- C. Invoke the create() method of AddressHome from the ejbCreate method of Customer.
- D. Invoke the create() method of AddressHome from the ejbPostCreate method of Customer.

Answer: D

5. A developer is writing a session bean which makes use of several entity beans to perform a task. The session bean must record the invocation of the task using a LogEntry entity bean. The log entry must be made regardless of the success of the task. What supports BEST this behavior?

- A. Provide two distinct operations on the session bean that would be invoked in sequence by the client code; one for creating the LogEntry and one for performing the task.
- B. Use 'RequiresNew' transaction attribute on the LogEntry bean to ensure that the creation of the LogEntry occurs on a separate transaction.
- C. Use 'Mandatory' transaction attribute on the LogEntry bean to ensure that the creation of the LogEntry occurs on a separate transaction.
- D. Have the task session bean invoke a createLogEntry() method on another session bean to ensure that the LogEntry is created outside the task transaction.

Answer: B

6. Refer to the exhibit to answer the question. The servlet filter, IntegerFilter, is used to retrieve a parameter from the HTTP request, convert it to an Integer object and store this object in the HttpServletRequest object for later use within a servlet. During stress testing the filter is found to mix up numbers obtained from different simultaneous requests. Which of the following is the BEST way to fix the problem?

- A. Make theInteger a local variable of the doFilter method.
- B. Synchronize the doFilter method of the filter class.
- C. Add SingleThreadModel to the implements clause of the class definition.
- D. Place the call to setAttribute in a synchronized block.

Answer: A

7. Refer to the exhibit to answer the question. A JSP, productList.jsp, contains a link for each available product which sends information about the product to addItemToBasketServlet as parameters of the HTTP POST request. During testing, the developer finds that the application behaves correctly, adding an item to the basket and returning the client to the product list to select more items. After deployment to the production environment, however, users find that the system fails to correctly record items when "shopping for several items at the same time". Which of the following is the BEST way to fix this problem?

- A. Synchronize the addItem method of the Basket class.

- B. Enable persistent sessions in the server configuration.
- C. Use URL rewriting for storage of the session ID.
- D. Synchronize the doPost method of AddItemToBasketServlet.

Answer: A

8. Given that the following JSP page directive has been defined in the JSP page, which implicit objects are available for use in JSP scriptlets and expressions?

```
(%@ page isThreadSafe="true" isErrorPage="true" errorPage="error.html" %)
```

- A. request
- B. error
- C. page
- D. in
- E. out

Answer: ACE

9. Examination of the logs of a production web application have revealed that some servlets, which form part of an internal testing framework, are being invoked by external users, even though the test servlets are not mapped to URLs in the web.xml file. Which of the following would be the BEST way to fix this problem?

- A. Uncheck the "Serve servlets by classname" checkbox in the Extensions page of the Web Deployment Descriptor editor.
- B. Check the "Only serve mapped servlets" checkbox in the Servlets page of the Web Deployment Descriptor editor.
- C. Add mappings for the test servlets to the web.xml file.
- D. Remove the classnames for the test servlets from the MANIFEST.MF file for the web application.

Answer: A

10. Part of the "page template", to be returned to the browser as a result of executing a JSP, is HTML which is updated daily, e.g., a "Press Releases" section. This is BEST done using which of the following tags?

- A. `<%@ forward file="/pages/press_releases.html" %>`
- B. `<%@ include file="/pages/press_releases.html" %>`
- C. `<jsp:include page="/pages/press_releases.html" />`
- D. `<jsp:forward page="/pages/press_releases.html" />`

Answer: C

11. A production web application contains many servlets, each representing one operation, which a user can perform in the application. The developer responsible for the application finds that it is hard to maintain and provides few opportunities for reuse of classes. Which of the following would be the BEST way to address these shortcomings?

- A. Replace the many servlets with a single servlet and use objects implementing the Command design

pattern to manage request processing.

- B. Relocate the business logic to reside in the servlet classes, to reduce the number of classes in the application.
- C. Add a single servlet to receive requests from the user and then use a rules-based mechanism for deciding which of the many servlets to forward the request to.
- D. Move the controller logic from the servlets to the JSPs, to reduce the number of addressable resources in the application.

Answer: A

12. The following code fragment shows the creation of a session object within a servlet (request is an object of type HttpServletRequest, flag is a boolean value):

```
HttpSession session = request.getSession(flag);
```

Which of the following statements are TRUE after this line of code has been executed?

- A. If flag is true, session always contains a reference to a new HttpSession object.
- B. If flag is true and no HttpSession object currently exists for this client, session contains a reference to a new HttpSession object.
- C. If flag is false and no HttpSession object currently exists for this client, session is null.
- D. If flag is false and no HttpSession object currently exists for this client, an exception is thrown.
- E. If flag is false, a new HttpSession object cannot be created because the session manager's maximum limits have been reached.

Answer: BC

13. A servlet has saved an instance of a com.ibm.ShoppingCart bean to the session object. The shopping cart information has to be displayed using a JSP page. Which JSP tags would allow for accessing the bean from the JSP page?

- A. `<jsp:useBean id="cart" class="com.ibm.ShoppingCart" />`
- B. `<jsp:useBean id="cart" scope="session" class="com.ibm.ShoppingCart" />`
- C. `<jsp:useBean id="cart" scope="session" type="com.ibm.ShoppingCart" />`
- D. `<jsp:useBean id="cart" scope="request" type="com.ibm.ShoppingCart" />`

Answer: BC

14. Which of the following tasks MUST be completed before a JSP custom tag implementation class can be used in a JSP?

- A. The definition of the tag must be added to the tag library descriptor.
- B. The tag library URI must be specified in a taglib directive.
- C. Custom tags must be enabled in the web deployment descriptor.
- D. The mapping for the custom tag must be defined in the web deployment descriptor.
- E. The taglib module must be placed in the web application's lib directory.

Answer: AB

15. A servlet, which extends HttpServlet, needs to read various initialization parameters relating to a database, such as the database name, user ID and password. The servlet contains the following code to read the database.dbname parameter:

```
String dbname = getInitParameter("database.dbname");
```

Where **MUST** the value of this parameter be entered?

- A. In a file called database.properties, located in the WEB-INF directory within the web module.
- B. In a file called database.dbname.properties, located in the WEB-INF directory within the web module.
- C. In the web deployment descriptor for the web module, in an init-param element within the servlet element.
- D. In the web deployment descriptor for the web module, in an env-entry element.

Answer: C

16. Which of the following statements are TRUE with regard to setting the "Access Intent" attribute to "wsOptimisticRead" on methods of an entity EJB?

- A. The ejbStore method ALWAYS gets called whenever any EJB method is called.
- B. The ejbLoad method gets called once in a transaction whenever the EJB methods are called.
- C. The ejbStore method does NOT get called whenever the EJB method is called.
- D. The ejbStore method gets called whenever the ejbActivate method is called.

Answer: BC

17. A developer of a self-service payroll application needs to connect to the payroll database. The name of the database is different in each of the development, staging and production environments. If the developer has to make the code portable across each of the environments, what is the BEST way to implement this?

- A. Create a property file for each of the environments and define a property called "payroll_db" which maps to the physical database. For each of the environments, publish the environment specific property file. In the application code use this property to connect to the database.
- B. Declare a resource reference called "payroll_db" in the deployment descriptor. While deploying the application in WebSphere, bind the resource to a JDBC Connection factory in the target environment. In the application code use the resource reference to retrieve a connection from the factory.
- C. Define a Web Application context parameter called "payroll_db". While deploying the application in WebSphere, initialize this property with the name of the physical database in the target environment. In the application code use the Servlet API to lookup the value of the database and connect to it.
- D. Define an environment variable for the database name. Make the code choose a database name based on the environment variable.

Answer: B

18. Which of the following happen when an enterprise application is published to server test environments

in WebSphere Studio Application Developer, V5 ?

- A. The application projects are built.
- B. The application projects are rebuilt.
- C. The server configuration is copied to the server location.
- D. An enterprise application (EAR file) is exported to the local file system.

Answer: C

19. Which of the following resources/tools are provided by WebSphere Studio Application Developer, V5 to test and deploy enterprise applications in WebSphere Application Server, V5?

- A. Server Projects
- B. Local Server
- C. Server and Server Configurations
- D. WebConsole

Answer: AC

20. In order to access the com.ibm.sample.EmployeeServlet servlet, any of the following URLs can be used:

<http://www.sample.ibm.com/Emp/EmpSearch>

<http://employees.ibm.com/Emp/EmpSearch>

<http://employees.ibm.com/Emp/servlet/com.ibm.sample.EmployeeServlet>

Which statements must be TRUE based on this information?

- A. The "File serving enabled" attribute is set in the deployment descriptor of the web module.
- B. The web application context root is /Emp.
- C. The servlet path is /Emp/EmpSearch.
- D. The "Serve Servlets by classname" attribute is set in the WebSphere extension section of the web module deployment descriptor.
- E. The Virtual Host configuration contains an alias that maps to "employees.ibm.com".

Answer: BDE

21. Consider an application for which security roles are being defined using the J2EE Authorization model as implemented by WebSphere. The application has a servlet, which should be made available only to WebSphere authenticated users. What are some of the steps necessary to provide this security? Assume the Application and Web Deployment Descriptor editors in WebSphere Studio Application Developer are being used.

- A. Make the servlet use an EJB which is protected by the appropriate security role.
- B. Define an appropriate security role in the web deployment descriptor.
- C. Add the security role to the servlet definition in the web deployment descriptor.
- D. Add the servlet as a web resource on a virtual host within WebSphere.

E. Define method level permissions in the web deployment descriptor.

Answer: BC

22. A developer must install an Enterprise Application in IBM WebSphere Application Server V5. What tools can be used to perform this task?

- A. XMLConfig command line utility.
- B. Web based administrative console (WebConsole).
- C. SEAppInstall command line utility.
- D. "wsdp" command line utility.
- E. "wsadmin" command line utility.

Answer: BE

23. In an enterprise application deployed in WebSphere Application Server, V5.0, if a Web module (WAR file) should access an EJB module, what is the BEST way for that Web module to reference the EJB interfaces and client stubs?

- A. Package the EJB interfaces and client stubs into a separate EJB Client JAR file and specify this JAR file in the MANIFEST Class-path of the Web module.
- B. Specify the EJB JAR file in the MANIFEST Class-path of the Web module.
- C. Package the EJB interfaces and client stubs into the Web module.
- D. Package the EJB and Web modules into an EAR file and specify EJB jar in the Class-path property of the EAR deployment descriptor.
- E. None of the above, as the classes in the EJB module are automatically made available to the Web module.

Answer: E

24. An IBMCampusOnline.com enterprise application retrieves and stores information about students and courses. Student and course entities are modeled as CMP entity beans. Students can see their courses and the tutor can see which students have enrolled in a course. To design the appropriate container-managed relationship:

- A. the CMP beans have to provide a local interface
- B. the CMP beans are to be declared in the same package
- C. the beans have to expose remote interfaces for servlet access
- D. foreign keys must exist on the appropriate database tables

Answer: AD

25. The IBMCampusOnline.com enterprise application is used by students accessing it over the internet and by employees accessing it from the intranet. The business process steps are mapped to stateless session bean methods. The session beans MUST have a remote interface when they:

- A. are accessed from different JVMs

- B. are accessed by servlets
- C. are accessed by non-Java clients
- D. become part of the session bean pool

Answer: AC

26. While designing EJBs with WebSphere Studio V5 a developer decides that EJB inheritance would speed up the development of the enterprise beans. When subclassing the enterprise bean class which of the following rules MUST be obeyed?

- A. Define the inheritance according to EJB 2.0 specification
- B. Beans have to be defined in the same EJB module
- C. Use EJB inheritance only with CMP entity beans
- D. Subclassed beans share the parents primary key class

Answer: BD

27. A developer is designing an enterprise application in which a user will submit a form containing information about customer registration. This information needs to be stored in CUSTOMER and ADDRESS tables. All the EJBs will be deployed in the same server, different from the one for the Web application. What is the BEST way to improve the application's performance with the following components?

RegistrationServlet : Servlet

RegisterProcessor : session EJB

CustomerEJB : CMP Entity

EJB for CUSTOMER table AddressEJB : CMP Entity EJB for ADDRESS table

- A. RegistrationServlet invokes the remote view of the CustomerEJB and AddressEJB.
- B. RegistrationServlet invokes the local view of the CustomerEJB and AddressEJB.
- C. RegistrationServlet invokes the remote view of the RegisterProcessor and RegisterProcessor then invokes the remote view of the CustomerEJB and AddressEJB.
- D. RegistrationServlet invokes the remote view of the RegisterProcessor and RegisterProcessor then invokes the local view of the CustomerEJB and AddressEJB.

Answer: D

28. A Developer creates a new message-driven bean (MDB). What piece of configuration information MUST be provided to the deployer of the bean?

- A. The JNDI name of the destination.
- B. The name of the queue the bean listens to.
- C. The name of the listener port used by the MDB.
- D. The JNDI name of the connection factory used with the queue.

Answer: C

29. While testing the create method of a CMP entity bean using the Universal Test Client of IBM WebSphere Studio Application Developer, an exception is thrown. Which of the following are LEAST likely causes of this exception?

- A. The 'databaseName' attribute of the Data source in the Server Configuration is wrong.
- B. The 'JNDI Name' attribute of the Data source in the Server Configuration is wrong.
- C. The ejbCreate method does NOT have the code for setting the CMP fields.
- D. The ejbCreate method does NOT have the code for INSERT SQL statement.
- E. The ejbPostCreate method has NO code.

Answer: DE

30. While testing a message-driven bean, the following exception is thrown: MQJMS2005:failed to create MQQueueManager for 'localhost:WAS_localhost_server1' What is the BEST explanation for this?

- A. ejb-jar.xml file is not valid.
- B. The Queue resource was not started.
- C. The MessageListener interface is not implemented.
- D. The message is not sent to MQQueueManager.
- E. While parsing the message of MQQueueManager, the exception is thrown.

Answer: B

31. The IBMCampusOnline.com enterprise application uses stateless session beans as facades to entity beans. Which of the following describe advantages of this design pattern?

- A. The persistence model can be hidden from the clients
- B. Access control can be delegated to the entity beans
- C. Local interfaces may be used to boost performance
- D. The session beans allow a high level of reuse

Answer: AC

32. To take BEST advantage of using IBM WebSphere Studio Application Developer V5, a developer creating and testing EJB 2.0 CMP entity beans has to:

- A. write the bean class as an abstract Java class
- B. define the persistent fields in the bean class
- C. identify the persistent fields
- D. map the persistent fields to a relational database

Answer: CD

33. While testing a BMP entity bean, a developer discovers that a change to one of the bean's properties is not being reflected in the database that contains the bean data. Which causes should the developer suspect?

- A. The ejbStore() method has a bug.

- B. The ejbLoad() method has a bug.
- C. The ejbCreate() method has a bug.
- D. The setter for the property has a bug.

Answer: AD

34. When developing ejbSelect methods using EJB QL queries for entity beans the developer:

- A. has to declare them abstract and final in the entity bean class
- B. has to expose these methods to the beans local interface
- C. is unable to invoke them directly from client code
- D. can call ejbSelect methods from ejbHome methods

Answer: CD

35. Which of the following statements are TRUE?

- A. Using 'this', an EJB can pass a remote reference to itself as a parameter to a method call or as a return value.
- B. Using the EJBContext, an EJB can pass a remote or local reference to itself as a parameter to a method call or as a return value.
- C. An EJB can use 'this' to invoke its business methods when it is involved in a transaction.
- D. An EJB can use the EJBObject or EJBLocalObject to invoke its methods when it is involved in a transaction.
- E. In an EJB instance, if the developer wants to create a new EJB instance with same type as itself, the EJBContext should be used.
- F. In an EJB instance, if the developer wants to create a new EJB instance with same type as itself, default constructor should be called.

Answer: BDE

36. A Developer is designing a message-driven bean (MDB) that requires a Publish/Subscribe type of connection which preserves messages until read from the destination. What selections does the developer have to make on the Create an Enterprise Bean wizard to avoid changes later in the development cycle?

- A. Transaction type: Bean.
- B. Destination Type: Queue.
- C. Durability: Durable.
- D. Destination Type: Topic.
- E. Durability: NonDurable

Answer: CD

37. A WebSphere Version 5.0 DataSource named "MyDatasource" has been created and configured in WebSphere Test Environment to have an "aged timeout" value of 300. Which of the following statements is TRUE?

- A. The connection is closed after 5 minutes whether or not the connection is in use.
- B. All connections that have been alive for more than 5 minutes are closed by the pool maintenance thread.
- C. Connections that have been borrowed by the application but have not been returned to the pool are reclaimed by WebSphere after 5 minutes.
- D. All connections that have been idle for more than 5 minutes are closed by the pool maintenance thread.

Answer: B

38. In a clustered environment having three servers, an application that uses a data source called myDataSource is deployed. myDataSource has a maximum connections setting of 10. Which of the following statements are TRUE?

- A. The maximum number of connections created to the database server from the cluster is 10.
- B. The maximum number of connections created to the database server from the cluster is 30.
- C. The database server should be configured to accept at least the maximum number of connections that are created from the cluster.
- D. All servers in the cluster share a single instance of the connection pool.

Answer: BC

39. If a datasource with JNDI name "jdbc/MyDatasource" has been defined to use the DB2 driver "COM.ibm.db2.jdbc.app.DB2ConnectionPoolDataSource", what is a valid way to obtain a connection from the "jdbc/MyDatasource" connection pool? Assume that any generated exceptions appear in the throws clause of the method containing the code.

- A. `Datasource ds = new Datasource("jdbc/MyDatasource");` `Connection conn = ds.getConnection("userid", "PASSWORD");`
- B. `Class.forName("COM.ibm.db2.jdbc.app.DB2ConnectionPoolDataSource");` `Connection conn = DriverManager.getConnection("jdbc:db2:MyDatasource", "userid", "PASSWORD");`
- C. `Context context = new InitialContext();` `DataSource ds = (DataSource)PortableRemoteObject.narrow(context.lookup("jdbc/MyDatasource"), DataSource.class);`
`Connection conn = ds.getConnection("userid", "PASSWORD");`
- D. `Context context = new InitialContext();` `DataSource ds = (DataSource)PortableRemoteObject.narrow(context.lookup("jdbc/MyDatasource"));` `Connection conn = ds.getConnection("userid", "PASSWORD");`

Answer: C

40. Which of the following MUST be specified when creating a new connection factory for the WebSphere Application Server embedded JMS provider?

- A. Name
- B. JNDI Name
- C. Implementation Class

- D. Persistence Directory
- E. Namespace

Answer: AB

41. A web application uses a stateful session bean for part of its processing. For efficiency, once a reference to a particular session bean is acquired, it is stored in the current HttpSession object. In this situation, which statements are TRUE?

- A. The corresponding Handle instance should be stored in the HttpSession.
- B. The session bean should implement the SessionBindingListener Interface.
- C. The session bean reference should be stored in the ServletContext.
- D. An EJB reference may become stale over time and must be validated before using.

Answer: AD

42. Client code contains the following Java statement: Object homeObj = context.lookup("java:comp/env/ejb/AcmeCheckingAccount"); Which statements are correct?

- A. homeObj must be narrowed (PortableRemoteObject) before it can be used if the EJB is a remote EJB.
- B. The global JNDI name is "ejb/AcmeCheckingAccount".
- C. The lookup may throw a javax.naming.NamingException
- D. Subsequent code should check that homeObj is not null before proceeding to use the reference.

Answer: AC

43. A developer needs to create a Java proxy web service client. The developer wants to ensure that the client proxy contains the complete endpoint information. This requirement can be satisfied by providing the web service client wizard with the WSDL document that contains:

- A. the <binding> element
- B. the <endpoint> element
- C. the <service> element
- D. the <schema> element

Answer: C

44. A developer wants to provide an access bean for a stateful session bean that only has local interfaces. What type of access bean generated by WebSphere Studio will meet this requirement?

- A. Java bean wrapper
- B. Copy helper
- C. Data class
- D. None of the available access bean types are applicable

Answer: D

45. After running an application, in the WebSphere Test Environment, with the server trace service enabled, in which directory will the developer find the output file produced? Assume <INST_ROOT> is the

directory where WebSphere Studio was installed and <WKSP_ROOT> is where the directory where the workspace exists.

- A. <INST_ROOT>\runtimes\base_v5\logs\server1
- B. <WKSP_ROOT>\.metadata\plugins\com.ibm.etools.server.core\tmpx\logs\server1
- C. <WKSP_ROOT>\.metadata\logs\server1
- D. <INST_ROOT>\eclipse\plugins\com.ibm.etools.server.core\tmpx\logs\server1

Answer: B

46. A developer is testing a business method of a session EJB that has references to two entity beans. The beans are required to be unique for the method to function correctly. During a test, the isIdentical method reports that the two beans are identical, even though they are not. Where should the developer look in order to resolve the error?

- A. The equals method on the entity bean's primary key class.
- B. The hashCode method on the entity bean's primary key class.
- C. The getPrimaryKey method on the entity bean class.
- D. The getHandle method on the entity bean class.

Answer: AB

47. A developer has created a set of utility classes in a JAR file called utility.jar. These classes are used by an EJB module and two different web applications in the same enterprise application. All of the following would allow the application to function correctly when deployed EXCEPT:

- A. Configure utility.jar as a shared library and then add a reference to it in the enterprise application's configuration.
- B. Add utility.jar to the WEB-INF/lib folder of one web module and set the enterprise application's WAR classloader policy to MODULE.
- C. Add utility.jar to the root of the enterprise application's EAR file and set the enterprise application's classloader visibility to APPLICATION.
- D. Expand utility.jar and copy the classes into the EJB module's JAR file.

Answer: B

48. A message-driven bean is required to receive an incoming message and perform a database update using a DataSource as part of a single transaction. Which of the following MUST be true in order for the message-driven bean to function correctly when deployed ?

- A. The DataSource is configured to use an XA JDBC driver supported by the application server.
- B. The onMessage method's transaction attribute in the message-driven bean's deployment descriptor is set to Supports or Required.
- C. The DataSource is configured to support Container Managed Persistence.
- D. The Listener port for the message-driven bean is configured with an XAQueueConnectionFactory or an

XATopicConnectionFactory

Answer: AD

49. A developer suspects a bottleneck in a component of a web application. What must be done in order to start collecting information using the Profiler tool in WebSphere Studio test environment?

- A. Enable Profiling in the Profiling and Logging preferences dialog.
- B. Enable Tracing in the server configuration.
- C. Ensure the IBM Agent Controller is running.
- D. Start the server for the application in Debug mode.
- E. Attach the server process to the profiling agent.

Answer: ACE

50. Horizontal Scaling is a recommended technique to accomplish all of the following goals EXCEPT:

- A. Eliminate all single points of failure.
- B. Exploit capabilities of multiprocessor nodes.
- C. Enhance the ability for your application to survive server failures.
- D. Decrease each node's resource utilization by your application.

Answer: B

51. Which application design decision could have a NEGATIVE impact on the performance of an IBM WebSphere application?

- A. Cache large amount of data retrieved from back-end data sources in HttpSession objects.
- B. Release all JDBC resources when no longer required.
- C. Invalidate HttpSession objects when they are no longer needed.
- D. Use JDBC connection pools to access back-end databases.

Answer: A

52. Part of an application involves a long running transaction. Throughput is very poor with many customers locked out of certain functions. The MOST likely reason for this behavior is that:

- A. The thread pool has been configured to be too small.
- B. The thread pool has been configured to be too large.
- C. The transaction isolation is set to serializable.
- D. The transaction isolation is set to read uncommitted.

Answer: C

53. In order to successfully invoke a business method on an EJB that is only available via a Remote interface, a client MUST perform a number of discrete operations. What is the correct sequence of the following operations when connecting to the EJB via its remote interface?

- I. Use the narrow method on the javax.rmi.PortableRemoteObject class
- II. Create a javax.naming.InitialContext object

III. Perform a lookup on a javax.naming.Context object (locating the Home Interface)

IV. Invoke either a create or finder on the Home Interface

A. II, III, IV, I

B. II, III, I, IV

C. II, I, III, IV

D. II, I, IV, III

Answer: B

54. The Account entity EJB only exposes a local interface. A developer wants to create an access bean to help support Account object updates. Which is the BEST type of access bean for the developer to create using WebSphere Studio to meet this goal?

A. Java bean wrapper

B. Row set

C. Data class

D. Copy helper

Answer: C

55. The principal reason Java clients should only look up EJBs via an EJB reference is:

A. the global JNDI name may not be available at runtime.

B. the J2EE Specification requires lookup via EJB reference.

C. an EJB reference is unique to the client and thus cannot result in name collisions.

D. they are the only names available in the JNDI namespace that are runtime topology independent.

Answer: C

56. When the getStockPrice() method of the StockQuote SOAP service is invoked, an exception occurs. Which of the following is NOT used in reporting the exception to the SOAP client? Assume that IBM WebSphere Studio Application Developer v5 is being used.

A. It is reported as a <SOAP-ENV:Fault> element of the response SOAP envelope.

B. It reported as a <SOAP-ENV:Exception> element of the response SOAP envelope.

C. A SOAPException is thrown.

D. The <faultcode> element indicates the fault type.

Answer: B

57. A DataSource named "MyDatasource" has been created and configured (in WebSphere Test Environment) to have a "Maximum connections" of 40 and a "Minimum connections" of 10. If all 40 connections are being used, and a new servlet attempts to acquire a connection from "MyDatasource", which statement is TRUE?

A. The orphan pool will be used until it is exhausted.

B. The servlet waits up to the number of seconds specified in the "MyDatasource" connection timeout

property.

- C. The servlet's call to the getConnection() method will throw a javax.sql.PooledConnectionException.
- D. The servlet will be suspended for the number of seconds in the orphan timeout property.

Answer: B

58. Which of the following are valid types for JMS destinations configured for the WebSphere Application Server embedded JMS provider?

- A. Topic
- B. Queue
- C. Stream
- D. List
- E. Ring

Answer: AB

59. Which of the following statements need to be considered when tuning the connection pool settings of a data source in WebSphere Application Server?

- A. A separate instance of a given configured connection pool is created on each application server for every data source or connection factory.
- B. "Statement Cache size" defines the number of prepared statements that are cached per connection.
- C. "Statement Cache size" defines the number of statements that are allowed per connection
- D. "Connection Timeout" defines the number of seconds before the Connection Pool returns idle connections to the pool.

Answer: AB

60. Given the following code and assuming that any checked exceptions appear in the throws clause of the method which contains this code, which of the following is TRUE?

- 1. Context context = new InitialContext();
 - 2. DataSource ds = (DataSource)PortableRemoteObject.narrow(context.lookup("jdbc/DB2Sample"), DataSource.class);
 - 3. Connection conn = ds.getConnection("userid", "PASSWORD");
- A. The obtained connection is to a DB2 database.
 - B. The name of the database is "jdbc/DB2Sample".
 - C. A DataSource with JNDI name "jdbc/DB2Sample" must exist in order for the code to execute without error.
 - D. A new JDBC Connection is always created when line 3 runs.

Answer: C

61. An application consisting of JSPs, servlets, and EJBs is to be protected from unauthorized access. Which of the following steps satisfy the above requirements when using J2EE security model as

implemented by WebSphere Application Server?

- A. Create the appropriate security roles.
- B. Create the required security constraints and associate JSP and servlet definitions with the security role.
- C. Add the servlets, JSPs and EJBs to the Enterprise application and assign them to the WebSphere defined security role - "All Role".
- D. Map EJB methods to roles by defining "Method Permissions".
- E. Map the security roles to authentication mechanisms in the connector modules.

Answer: ABD

62. Which of the following should be set as application classloading policy in WebSphere Application Server, V5.0 so that the modules in one enterprise application are visible to modules in another enterprise application?

- A. SERVER
- B. APPLICATION
- C. PARENT_FIRST
- D. PARENT_LAST
- E. SINGLE

Answer: E

63. How are environment properties configured in the WebSphere V5.0 Test Environment?

- A. By defining the environment properties in the enterprise application deployment descriptor.
- B. By defining the environment properties in Server Configuration using the Server Configuration editor.
- C. By defining the environment properties in the Server tool.
- D. By passing the environment properties via eclipse runtime command line arguments.

Answer: B

64. A developer has third party libraries that all J2EE applications installed on the server need to share. Which of the following is the BEST way to accomplish this when using WebSphere Application Server V5? Assume that "product_installation_root" is the directory where WebSphere is installed.

- A. Place all the JARs in "product_installation_root/installedapps"
- B. Place all the JARs in "product_installation_root/lib"
- C. Place all the JARs in "product_installation_root/lib/app"
- D. Configure the libraries in "Environment->Shared Libraries" in WebSphere configuration.

Answer: D

65. Which of the following constitute a deployable enterprise application archive (EAR file)?

- A. At least one connector module
- B. Zero or more EJB modules
- C. Zero or more database modules

- D. Zero or more web modules
- E. At least one security module

Answer: BD

66. In a Human Resources web based system, a web module with the context root "/Emp" has a servlet with a class name of com.ibm.sample.EmployeeServlet and a URL pattern of "/EmpSearch". The "Serve servlets by classname" attribute of the web module is NOT enabled. Which URL can be used to call the servlet?

- A. <http://www.sample.ibm.com/EmpSearch>
- B. <http://www.sample.ibm.com/Emp/EmpSearch>
- C. <http://www.sample.ibm.com/WebModule/Emp/EmpSearch>
- D. <http://www.sample.ibm.com/Emp/com.ibm.sample.EmployeeServlet>
- E. <http://www.sample.ibm.com/WebModule/Emp/EmployeeServlet>

Answer: B

67. A developer of an e-commerce application needs to send an order completion email on successful checkout. The name of the email server is different in each of the development, staging and production environments. If the developer has to make the code portable across each of the environments, what is the BEST way to implement this?

- A. Declare a resource reference called "email_server" in the deployment descriptor. While deploying the application in WebSphere, bind the resource to a JavaMail provider factory in the target environment. In the application code use the resource reference to retrieve a JavaMail session from the factory.
- B. Create a property file for each of the environments and define a property called "email_server" which maps to the physical email server. For each of the environments, publish the environment specific property file. In the application code use this property to connect to the email server.
- C. Define a Web Application context parameter called "email_server". While deploying the application in WebSphere, initialize this property with the name of the target environment's physical email server. In the application code use the Servlet API to lookup the value of this property.

Answer: A

68. Which of the following tools can be used to

1. create DataSources
2. modify server classpaths
3. modify virtual host aliases in

WebSphere Studio Application Developer, V5 for applications running on WebSphere test environments?

- A. Enterprise application deployment descriptor editor.
- B. Web module deployment descriptor editor.
- C. EJB module deployment descriptor editor.

D. Server instance and Server Configuration editor.

Answer: D

69. A developer wishes to create a JSP custom tag with a parameter, called date. The value of the date parameter is used to look up news items for a specific date, so that these can be used in the JSP. Which of the following MUST the developer do in order to get access to the date parameter in the tag implementation class?

- A. Provide a public instance variable of type java.util.Date, called date.
- B. Provide a method with the signature: public void setDate(java.util.Date).
- C. Provide a method with the signature: public void setDate(java.lang.String).
- D. Use the getParameter method of the TagContext object to get the date.
- E. Use the getAttribute method of the TagData object to get the date.

Answer: C

70. Which two of the following statements are TRUE regarding the validity of an HttpSession?

- A. An HttpSession object is automatically invalidated after a configurable period of inactivity.
- B. The maximum allowable period of inactivity for a client's HttpSession object can be set using setInvalidationInterval() method of a servlet.
- C. A servlet can request immediate invalidation of the HttpSession by calling its invalidate method.
- D. The HttpSession is only valid when the Cookie containing the session ID has been returned to the client machine.

Answer: AC

71. A developer has received a complaint from a user of a production web application. The user has found that if a mandatory field is omitted while completing the HTML registration form, an error message is correctly displayed. Clicking on the Back button displays the form, but all the fields are empty and all the information must be re-entered. Which is the BEST way to handle this complaint?

- A. Use a JSP to display the HTML registration form, record the field values in a Memento object when the form is submitted and store this object in the HttpSession for repopulating the form if it is redisplayed.
- B. Store all the information from the form in a user database table when the form is submitted, use a JSP to display the form and use database access tags from the JSP Standard Tag Library to populate the fields.
- C. Store the original form values in a Cookie, which can be used by the browser to populate the fields by using the Cookie Scripting Framework to access fields in the Cookie.
- D. Use a JSP to display the registration form, store the field values in HTML hidden fields and JavaScript to copy the values from the hidden fields to the entry fields.

Answer: A

72. A JSP needs to setup a resource once in its lifecycle. This is BEST done by:

- A. overriding init() in a JSP declaration.

- B. overriding jsplnit() in a JSP declaration.
- C. writing code in a scriptlet.
- D. adding a default constructor.

Answer: B

73. There is a requirement to assign customer information available in the HTTP request to a Customer JavaBean inside a JSP. Assuming that name and phone are the only two parameters in the HTTP request and the Customer bean has matching properties with getters and setters, what are valid JSP tags to implement this requirement?

- A. `<jsp:setProperty name="customer" property="*" />`
- B. `<jsp:setProperty name="customer" value="*" />`
- C. `<jsp: setProperty name="customer" property="name" parameter="name" />` & `<jsp: setProperty name="customer" property="phone" parameter="phone" />`
- D. `<jsp: setProperty name="customer" property="name" param="name" />` & `<jsp: setProperty name="customer" property="phone" param="phone" />`

Answer: AD

74. A developer is writing a web application in which configuration information is read once when the application starts and is repeatedly referenced by code in different servlets in the application. A JavaBean has been created to encapsulate this information. What is the BEST place to store a reference to the bean?

- A. ServletContext
- B. HttpSession
- C. HttpServletRequest
- D. ApplicationContext

Answer: A

75. Assuming no page directives have been defined in the JSP page, which implicit objects are available for use in JSP scriptlets and expressions?

- A. request
- B. exception
- C. page
- D. in
- E. session

Answer: ACE

76. A developer needs to store the credit card details for a user in a web application that does not use HttpSession. Which of the following would be the BEST way to store the information?

- A. Store a key value in a Cookie, which is returned to the user, and use the key to look up the credit card information in a relational database.

- B. Store the credit card information in a Cookie, which is returned to the user.
- C. Store the credit card information in HTML hidden fields in each page returned to the user.
- D. Store the credit card information in the ServletContext with a value identifying the user.

Answer: A

77. A deployed web application includes a servlet to accept image files as HTTP requests and store the images in a database. Several clients are using this system successfully, but one client is experiencing unacceptably long upload times. This client has chosen to compress the images using a common compression algorithm before sending them. What would be the BEST way to modify the existing system to deal with the compressed images?

- A. Write a servlet filter to decompress the images, where necessary, before passing them to the existing servlet for storage.
- B. Modify the servlet to determine whether the image is compressed or not, then decompress, where necessary, before storage.
- C. Change the database structure to allow images to be stored compressed or uncompressed and modify the applications which use this data to perform the decompression where necessary.
- D. Create a new version of the servlet to decompress the files and use a different URL mapping for this servlet, to be used only by this one customer.

Answer: A

78. While using a web application, a user enters an account number into an HTML form and presses the Submit button. A servlet receives this account number, looks up the account detail in a database and creates a JavaBean to store the information. The servlet then forwards the request to a JSP so that the account details can be displayed for the user. Which of the following would be the BEST place for the servlet to store the JavaBean so that it would be available to the JSP?

- A. The RequestContext object
- B. The HttpServletRequest object
- C. The ServletContext object
- D. The HttpSession object

Answer: B

79. 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 = ...; // deserialize from a file...
```

```
Cart cart = (Cart)cartHandle.getEJLObject(); // &lt;---- '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

80. 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

81. After creating a message-driven bean (MDB), what configuration setup MUST be performed on a new test server before the MDB can be tested?

- A. Create a JMS Connection Factory and Destination.
- B. Set WebSphere MQ to start when the test server starts.
- C. Create a JAAS authentication alias.
- D. Create the listener port.
- E. Set any necessary message selectors for the MDB.

Answer: AD

82. When developing EJB 2.0 applications which of the following guidelines should be followed?

- A. Use a session facade as the entry point for business logic.
- B. Local interfaces are recommended to take advantage of RMI/IIOP.
- C. Use static instance variables on EJBs to maintain state.
- D. Generally, entity beans should use container-managed persistence.

Answer: AD

83. When using container-managed relationship between entity beans which type of the relation would require a "cascading delete" to be declared?

- A. association
- B. composition
- C. ejb-relation

D. bidirectional

Answer: B

84. 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 values 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

85. A customer's enterprise application is developed with a strong focus on performance and scalability on IBM WebSphere Application Server V5. Several database vendors have to be supported. The enterprise developer decides to encapsulate calls to entity beans by facade session beans. Which design for the entity beans would fit BEST?

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

Answer: A

86. 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

87. 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

88. 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.

Answer: C

89. 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: ABE

90. Which of the following statements are TRUE for EJB Query Language (QL) as defined by the EJB 2.0 specification?

- A. EJB QL queries can be used with BMP entity beans.
B. EJB QL applies to CMP entity beans only.
C. The ejbSelect method can return local EJB objects.
D. The entity beans must provide a local interface.

Answer: BC

91. After creating a message-driven bean (MDB) in a new workspace, a developer codes the business logic 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

92. A stateless session bean has a method that invokes a long running multiple step transaction involving a database server. This server is prone to occasional lock timeout errors under heavy load. It is important that these occasional errors rarely cause a transaction to fail. What step can the developer take to help facilitate meeting this requirement?

- A. Delegate the retry responsibility to the client of the session bean.
- B. Break the pieces of the transaction up into logical sub-parts that are retried upon failure.
- C. Retry the transaction whenever it fails.
- D. Retry all parts of the transaction except for the part that causes an error.

Answer: B

93. Which application design decisions have a NEGATIVE impact on the performance of an IBM WebSphere application?

- A. For each SQL access, obtain JDBC data sources through a JNDI naming lookup.
- B. Use HttpSession objects to only store user profile information and the user's current session state.
- C. Explicitly invalidate the HttpSession object associated with a user when it is no longer needed.
- D. Use System.out.println in servlets to log application specific messages to log files.

Answer: AD

94. Which of the following is NOT a drawback of marking a resource reference to a DataSource in the server configuration as UNSHAREABLE ?

- A. Inefficient use of your connection resources if you have multiple threads using connections to the same database.
- B. Tying up the database resources for a connection when your application is holding a connection but not using it.
- C. If an application is required to perform several different transactions, the same connection cannot be reused.
- D. The possibility of deadlock when multiple threads have connections to the same database and are running concurrently.

Answer: C

95. A developer uses the IBM WebSphere Trace utility to help resolve a problem which involves transaction interaction within the Services EJB. The developer decides to trace the following packages: com.ibm.ejs.container at an event level and com.ibm.ejs.jts at every level. Which trace specification string will accomplish this level of tracing?

- A. com.ibm.ejs.container.*=event=true:com.ibm.ejs.jts.*=all=true
- B. com.ibm.ejs.container.*=event=enable:com.ibm.ejs.jts.*=entryexit=enable,debug=enable,event=enable
- C. com.ibm.ejs.container.*=all=true:com.ibm.ejs.jts.*=all=false
- D. com.ibm.ejs.container.*=event=enable:com.ibm.ejs.jts.*=alllevel=enable
- E. com.ibm.ejs.container.*=event=enable:com.ibm.ejs.jts.*=all=enable

Answer: BE

96. Several customers are complaining that the information being displayed on their browser from a web site contains incorrect information. All of the following are likely causes for this problem EXCEPT:

- A. The configured maximum thread pool size is too small for the current server load.
- B. Customer state data is being stored in the ServletContext.
- C. Incorrect database isolation levels have been set.
- D. Servlet instance variables are being used for customer state data.

Answer: A

97. Which of the following statements are TRUE regarding using Profiling Filters?

- A. Can be specified at package, class and method levels.
- B. Are used at display time and limit the amount of data presented.
- C. Filters are used at collection time and limit the amount of data analyzed.
- D. Filters set in the Profiling and Logging preferences dialog override filters set for a particular profiling session.

Answer: AC

98. An application function is supported by a stateful session bean. During operation, performance degrades over time. The MOST likely cause for this behavior is that the:

- A. state stored in the stateful session bean is not Serializable.
- B. client is not removing stateful session beans when done with processing.
- C. object cache is configured too large on the application server.
- D. stateful session bean contains no state and is not optimized for that fact.

Answer: B

99. An existing enterprise application with several web modules has a set of shared utility classes in a JAR file in the root of the corresponding EAR file. A developer adds a new web module that uses a different version of the utility classes in the WEB-INF/lib folder of the new module. What actions should be taken to ensure that the new web application functions correctly after redeployment?

- A. Set the Classloader mode for the enterprise application to PARENT_LAST.
- B. Set the WAR classloader policy for the enterprise application to MODULE.
- C. Set the WAR classloader policy for the enterprise application to APPLICATION.
- D. Set the Classloader mode for the new web module to PARENT_LAST.

Answer: BD

100. Which of the following is NOT a valid combination of transaction settings?

- a. PatronEJB : Entity EJB
 - b. ReceiveMDB : Message-driven bean.
 - c. ItemProcessor : Stateful session bean.
- A. a - Required, b - NotSupported, c - Required
B. a - RequiresNew, b - Required, c - RequiresNew
C. a - Mandatory, b - NotSupported, c - Required
D. a - Required, b - Mandatory, c - RequiresNew
E. a - RequiresNew, b - Required, c - Mandatory

Answer: D

101. Refer to the exhibit to answer the question. Which categories of EJB might A and B belong to? Select the BEST match.

- 1. Stateless session bean
 - 2. Stateful session bean
 - 3. Message-driven bean
 - 4. CMP entity bean
 - 5. BMP entity bean
- A. A - 1,2,5 B - 5
B. A - 1,2,3,4 B - 2,5
C. A - 1,3 B - 2,5
D. A - 1,2,3 B - 2
E. A - 2,3 B - 1

Answer: D

102. A developer needs to create a method on a session bean that in turn calls methods on 3 different entity beans within a single transaction. If any of the method calls fail, the session bean task is considered to have failed and should rollback any changes made by the entity beans. When the entity bean operations fail, they report an exception. What MUST be TRUE to support this behavior?

- A. The session bean is configured with Bean Managed transaction demarcation.
- B. The exceptions thrown by the entity bean methods are checked exceptions.
- C. Each invocation of entity bean behavior is preceded by a call to `javax.transaction.UserTransaction.begin()`.
- D. The entity bean methods are not configured with 'RequiresNew'.

Answer: D

103. Which of the following statements is TRUE about the Transaction Isolation attribute in WebSphere

Application Server V5.0?

- A. When the "Read committed" isolation level is used, dirty reads are avoided.
- B. For session beans and BMP entity beans, the container generates code that assures the desired level of isolation for each database access.
- C. For entity beans with CMP, the container sets the isolation level at the start of each transaction, and for every database connection.
- D. When the "Read committed" isolation level is used, non-repeatable reads are avoided.

Answer: A

104. Refer to the exhibit to answer the question. Assuming container-managed transaction demarcation, which statement is FALSE concerning transactions and AccountBean?

- A. An invocation of AccountBean.deposit() outside a transaction will result in a new transaction being created.
- B. An invocation of AccountBean.getBalance() inside a transaction will not result in an Exception.
- C. AccountBean.deposit() can execute outside any transaction scope.
- D. AccountBean.getBalance() can execute outside any transaction scope.

Answer: A



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