



Exam : 000-287

Title : Enterprise Application Development with IBM
WebSphere Studio, V5.0

Ver : 01-28-09

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

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

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

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

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.

Answer: C

QUESTION 10:

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 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: A,D

QUESTION 11:

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

QUESTION 12:

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: B,C

QUESTION 13:

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

- A. Use a session faced as the entry point for business logical

- B. Local interfaces are recommended to take advantage of RMI/IIOP.
- C. Use static instance variables on EJB to maintain state.
- D. Generally entity beans should use container-managed persistence

Answer: A,D

QUESTION 14:

Exhibit

```
A. method1{
    ...
    tran = context.getUserTransaction();
    tran.begin();
    ...
    tran.commit();
}

B. method1{
    ...
    tran = context.getUserTransaction();
    tran.begin();
    ...
}

B. method2{
    ...
    tran.commit();
}
```

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

QUESTION 15:

Exhibit

```
<ejb-jar ...>
...
</assembly-descriptor>
..
  <container-transaction>
    <method>
      <ejb-name>AccountBean</ejb-name>
      <method-name>*</method-name>
    </method>
    <trans-attribute>Supports</trans-attribute>
  </container-transaction>
  <container-transaction>
    <method>
      <ejb-name>AccountBean</ejb-name>
      <method-name>getBalance</method-name>
    </method>
    <trans-attribute>NotSupported</trans-attribute>
  </container-transaction>
</assembly-descriptor>
</ejb-jar...>
```

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

QUESTION 16:

Which of the following is NOT a valid combination of transaction setting?

- a.PatronEJB : Entity EJB
- b.ReceiveMDB : Message-driven bean.
- c.Item Processor : 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

QUESTION 17:

A developer needs to create a method on a session bean that in turn calls methods on a 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

QUESTION 18:

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

QUESTION 19:

Which application designs have a NEGATIVE impact on the performance of an IBM WebSphere application?

- A. For each SQL access, obtain JDBC data source through a JNDI naming lookup.
- B. Use HttpSession objects to only store user profile information and the users 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: A,D

QUESTION 20:

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

QUESTION 21:

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 used.
- D. The possibility of deadlock when multiple threads have connections to the same database and are running concurrently

Answer: C

QUESTION 22:

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: A,C

QUESTION 23:

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

QUESTION 24:

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: B,D

QUESTION 25:

A developer uses the IBM WebSphere Trace utility to help resolve a problem which involves transaction within the Services EJB. The developer decides to trace the following packages:com.ibm.ejb.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: B,E

QUESTION 26:

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

QUESTION 27:

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: A,B

QUESTION 28:

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

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

Answer: A, B

QUESTION 29:

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 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

QUESTION 30:

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)portableRenouteObject.narrow(context.lookup("jdbc/DB2Sample"),DataSource.class);  
3. Connection conn = ds.getCnnection("userid", "PASSWORD");
```

- A. The obtained connection is to a DB2 database.
- B. The name of the database is "jdbc/DB2Sample".
- C. A DtaSource 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

QUESTION 31:

Which of the following should be set as application classloading policy in WebSpher Application Server, 5.0 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

QUESTION 32:

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: B,D

QUESTION 33:

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 defining the environment properties via eclipse runtime command line arguments.

Answer: B

QUESTION 34:

In a Human Resources web based system, a web module with the context root "/Emp" has a servlet with a class name of com. Certkiller .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. Certkiller .com/EmpSearch
- B. http://www.sample. Certkiller .com/Emp/EmpSearch
- C. http://www.sample. Certkiller .com/WebModule/Emp/EmpSearch
- D. http://www.sample. Certkiller .com/Emp/com. Certkiller .sample.EmployeeServlet
- E. http://www.sample. Certkiller .com/WebModule/Emp/EmployeeServlet

Answer: B

QUESTION 35:

An application consisting of JSPs, servlets, and EJBs is to be procted 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 requires 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: A,B,C

QUESTION 36:

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

QUESTION 37:

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 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/libapp"
- D. Configure the libraries in "Environment->Shared Libraries" in WebSphere configuration

Answer: D

QUESTION 38:

A developer of an e-commerce application needs to send an ordercompletion 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

QUESTION 39:

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

QUESTION 40:

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

QUESTION 41:

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

QUESTION 42:

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. ASOAP Exception is thrown.
- D. The <faultcode>element indicates the fault type.

Answer: B

QUESTION 43:

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

QUESTION 44:

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 form 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 the browser to populate the fields by using the Cookie Scripting Framework to access fields in the Cookie.
- D. Use a JSP display the registration form, store the field value in HTML hidden fields and JavaScript to copy the values from the hidden fields to the entry fields.

Answer: A

QUESTION 45:

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 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 fiels use a different URL mapping for this servlet to be used only by this one customer.

Answer: A

QUESTION 46:

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 information. The servlet then forwards the requests 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

QUESTION 47:

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"`
- D. `<jsp:setProperty name="customer"property="name" param="name" />` `<jsp:setProperty name="customer"property="phone"param="phone" />`

Answer: A,D

QUESTION 48:

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: A,B,C

QUESTION 49:

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

QUESTION 50:

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: A,C

QUESTION 51:

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

Answer: B

QUESTION 52:

A developer wishes to create a JSP custom tag with a parameter, called sate. 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 setSate(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

QUESTION 53:

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

QUESTION 54:

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

QUESTION 55:

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 56:

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

Answer: D

QUESTION 57:

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 58:

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 59:

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

QUESTION 60:

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 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: A,D

QUESTION 61:

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

QUESTION 62:

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: B,C

QUESTION 63:

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

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

Answer: A,D

QUESTION 64:

Exhibit

```
A. method1{
    ...
    tran = context.getUserTransaction();
    tran.begin();
    ...
    tran.commit();
}
```

```
B. method1{
    ...
    tran = context.getUserTransaction();
    tran.begin();
    ...
}
```

```
B.method2{
    ...
    tran.commit();
    ...
}
```

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-drive 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

QUESTION 65:

Exhibit

```
<ejb-jar ...>
...
</assembly-descriptor>
..
<container-transaction>
  <method>
    <ejb-name>AccountBean</ejb-name>
    <method-name>*</method-name>
  </method>
  <trans-attribute>Supports</trans-attribute>
</container-transaction>
<container-transaction>
  <method>
    <ejb-name>AccountBean</ejb-name>
    <method-name>getBalance</method-name>
  </method>
  <trans-attribute>NotSupported</trans-attribute>
</container-transaction>
</assembly-descriptor>
</ejb-jar...>
```

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

QUESTION 66:

Which of the following is NOT a valid combination of transaction setting?

a.PatronEJB : Entity EJB

b.ReceiveMDB : Message-driven bean.

c.Item Processor : 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

QUESTION 67:

A developer needs to create a method on a session bean that in turn calls methods on a 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

QUESTION 68:

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

QUESTION 69:

Which application designs have a NEGATIVE impact on the performance of an IBM WebSphere application?

A. For each SQL access, obtain JDBC data source through a JNDI naming lookup.

B. Use HttpSession objects to only store user profile information and the users 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: A,D

QUESTION 70:

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

QUESTION 71:

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 used.

D. The possibility of deadlock when multiple threads have connections to the same database and

are running concurrently

Answer: C

QUESTION 72:

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: A,C

QUESTION 73:

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

QUESTION 74:

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: B,D

QUESTION 75:

A developer uses the IBM WebSphere Trace utility to help resolve a problem which involves transaction within the Services EJB. The developer decides to trace the following packages:com.ibm.ejb.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: B,E

QUESTION 76:

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

QUESTION 77:

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: A,B

QUESTION 78:

Which of the following are valid types for JMS destination configured for the WebSphere

Application Server embedded JMS provider?

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

Answer: A, B

QUESTION 79:

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 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

QUESTION 80:

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)PortableNamingObject.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

QUESTION 81:

Which of the following should be set as application classloading policy in WebSphere

Application Server, 5.0 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

QUESTION 82:

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: B,D

QUESTION 83:

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 defining the environment properties via eclipse runtime command line arguments.

Answer: B

QUESTION 84:

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

QUESTION 85:

An application consisting of JSPs, servlets, and EJBs is to be procted 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 requires 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: A,B,C

QUESTION 86:

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

QUESTION 87:

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 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/libapp"

D. Configure the libraries in "Environment->Shared Libraries" in WebSphere configuration

Answer: D

QUESTION 88:

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

QUESTION 89:

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

QUESTION 90:

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

QUESTION 91:

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?

- v. Use the narrow method on the javax.rmi.PortableRemoteObject class
- vi. Create a javax.naming.InitialContext object
- vii. Perform a lookup on a javax.naming.Context object (locating the Home interface)
- viii. Invoke either a create or finder on the Home Interface
- ix.

- A. II,III,IV,I
- B. II,III,I,IV
- C. II,I,III,IV
- D. II,I,IV,III

Answer: B

QUESTION 92:

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. ASOAP Exception is thrown.
- D. The <faultcode>element indicates the fault type.

Answer: B

QUESTION 93:

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

QUESTION 94:

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

QUESTION 95:

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, use a different URL mapping for this servlet to be used only by this one customer.

Answer: A

QUESTION 96:

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 information. The servlet then forwards the requests 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

QUESTION 97:

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"`
- D. `<jsp:setProperty name="customer"property="name" param="name"/>` `<jsp:setProperty name="customer"property="phone"param="phone"/>`

Answer: A,D

QUESTION 98:

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: A,B,C

QUESTION 99:

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

QUESTION 100:

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: A,C

QUESTION 101:

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

Answer: B

QUESTION 102:

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 setSate(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

QUESTION 103:

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

QUESTION 104:

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