



70-549

(Designing and Developing Enterprise Applications by Using the Microsoft .NET Framework)

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(C#)

Question: 1

You are an enterprise application developer. You design a data access component that interacts with a Microsoft SQL Server database. The component uses a database connection string. The database connection string is stored in clear text in the ConnectionStrings section of the application configuration file. During testing, you discover that the component might be vulnerable to SQL injection attacks. You need to adopt a strategy to protect the component from SQL injection attacks. What should you do?

- A. Replace all dynamic SQL statements with parameterized SQL statements that use strongly typed SQL parameters.
- B. Construct all dynamic SQL statements by using a SecureString object.
- C. Modify the method so that it throws an exception if the SQL statement does not return any rows.
- D. Encrypt the ConnectionStrings section of the configuration file.

Answer: A

Question: 2

You are an enterprise application developer. You are implementing a new component for an application. The component accesses a database to populate a list of customer objects and exposes a method that is named GetAllCustomers. The component uses a design pattern to access the database only on an as-needed basis. A caching mechanism exists in a lower tier of the application architecture. The component must not cache data. You need to implement the logic for populating a list of customer objects by using a database query. You also need to ensure that you meet the company guidelines for the component design pattern. What should you do?

- A. Execute a query in the constructor of the component to populate a field of type List<Customer>. Return the List reference in the call to the GetAllCustomers method.
- B. Execute a query in the static constructor of the component to populate a static field of type List<Customer>. Return the List reference in the call to the GetAllCustomers method.
- C. Execute a query in the GetAllCustomers method to populate a local variable of type List<Customer>. Return the List reference.
- D. Execute a query in the GetAllCustomers method to populate a field of type List<Customer> only if the field is null. Return the List reference.

Answer: C

Question: 3

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You are an enterprise application developer. You are creating the first version of an application to manage rich text documents. The application must meet the following design requirements:

Support the file system and a Microsoft SQL Server database as data stores.

Ensure the following for future versions:

Add support for additional data stores, including network storage.

Acquire the ability to interface with third-party-distributed authoring and versioning tools.

Bring additional storage options online without having to redeploy the entire application.

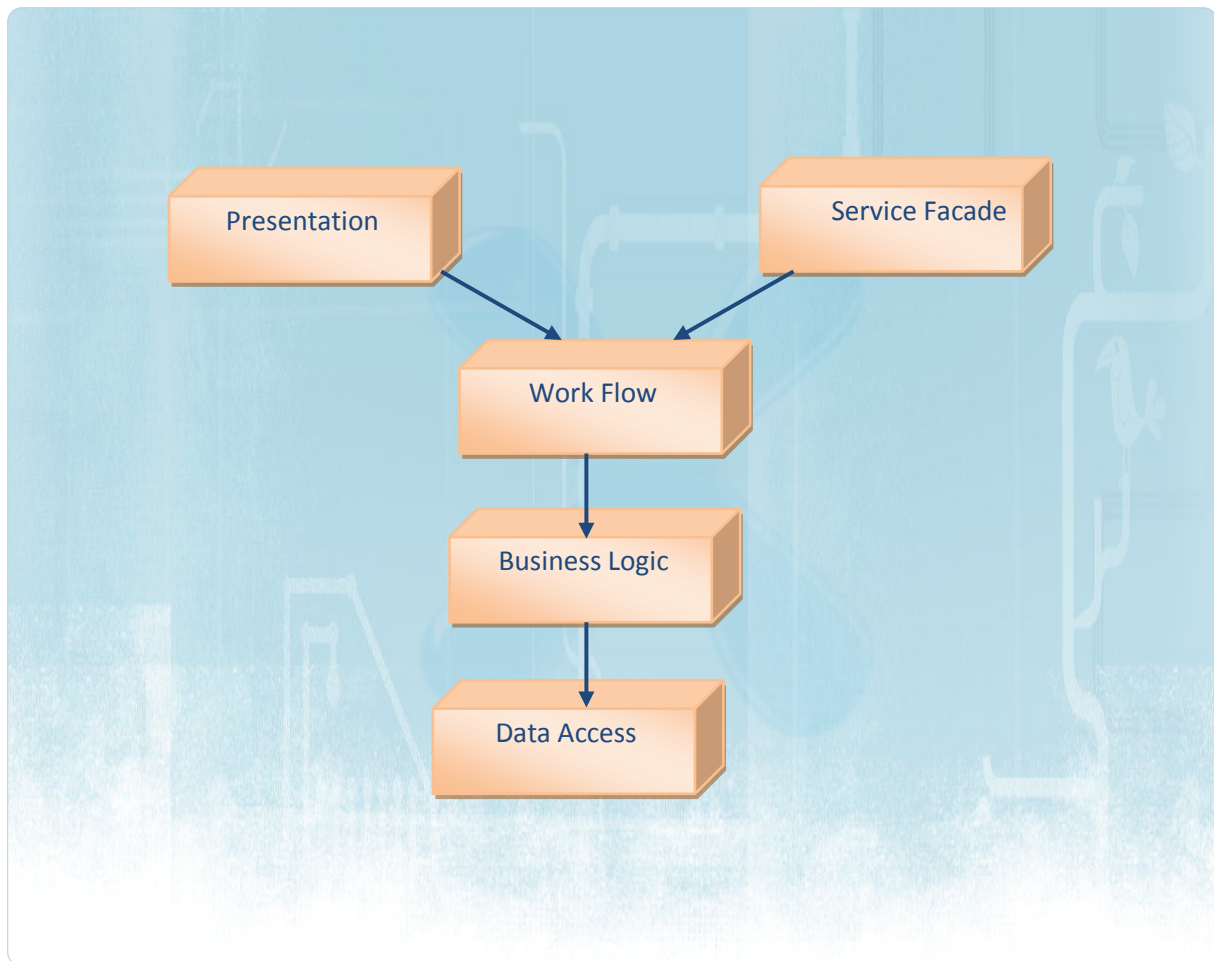
You need to identify an appropriate approach to meet these requirements. Which approach should you choose?

- A. Create a single Document component to represent the rich text content of a document and include methods on the component to persist and retrieve rich text for each type of data store.
- B. Create a single Document component to represent the rich text content of a document and an enumeration to represent each available data store. Include a parameter of the enumerated type in methods interfacing with a data store.
- C. Create a single Document component to represent the rich text content of a document and an enumeration to represent each available data store. Include a property on the Document component to permit the selection of a data store.
- D. Create a Document component to represent the rich text content of a document. Create a DocumentRepository component to manage the various data stores.

Answer: D

Question: 4

You are an enterprise application developer. You are creating an application that has a layered architecture as shown in the following diagram.



A component that resides in the workflow layer manages transactions across one or more activities in the business logic layer. You need to make modifications to the component. You need to identify the layers that might require modification when the component in the workflow layer is modified. Which two layers should you identify? (Each correct answer presents part of the solution. Choose two.)

- A. Presentation layer
- B. Service facade layer
- C. Business logic layer
- D. Data access layer

Answer: A, B

Question: 5

You are an enterprise application developer. You are creating a .NET Remoting component. The Version 1.0 of the component is deployed as a well-known server-activated object. The strong-named component is installed in the global assembly cache. Ten distributed applications in your company utilize the component, and each application has an independent schedule for upgrades and deployment. You add new features to the

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component. These additions will change the signatures of the public methods on the component. You need to devise a deployment strategy for the component. What should you do?

- A. Deploy the component in place of the existing well-known object.
- B. Deploy the component as a well-known object.
- C. Increment the version number of the component assembly. Deploy the component in place of the existing well-known object.
- D. Increment the version number of the component assembly. Deploy the component as a new well-known object.

Answer: B

Question: 6

You are an enterprise application developer. You are creating a component that processes loan requests. Your component will be used inside Microsoft Windows Forms client applications. The loan request form is complex and time consuming to complete. Loan data is saved to Microsoft SQL Server 2005 database. You need to ensure that in case of a system failure the loan officer does not need to re-enter any loan data. What should you do?

- A. Implement a private Save method that saves all property values to the database. Call the Save method from inside your component's finalizer.
- B. Implement code inside the Set accessor for each property that saves the property value to the database.
- C. Implement a public Save method that saves all property values to a static variable.
- D. Implement code inside the Set accessor that saves the property value to a static variable.

Answer: B

Question: 7

You are an enterprise application developer. You create a component that generates medical documents. Your component is used by multiple document management systems. Users generate documents throughout the entire day and most documents are generated during business hours. You notice that user load is increasing and performance is degrading. You need to identify sections of code on which to focus performance tuning efforts. Which two actions should you recommend? (Each correct answer presents part of the solution. Choose two.)

- A. Analyze the resource usage for the objects created in the component.
- B. Analyze the execution time for methods in the component.
- C. Analyze the time periods of peak frequency of document creation.
- D. Analyze which application users are generating the greatest number of documents.
- E. Analyze which client applications are generating the greatest number of documents.

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Answer: A, B

Question: 8

You are an enterprise application developer. You are creating a component that will be used in an order fulfillment process. The component performs the following twotasks:

Modifies data in a local Microsoft SQL Server database

Adds data ta remote SQL Server database

The application that uses the component is multithreaded. Each application thread that uses the component creates its own instances of the component classes. You need tensure that the component either performs both tasks successfully or performs neither task. What should you do?

- A. Use the System.Threading.Monitor class tsynchronize the code segment that performs the data modifications and submits the message.
- B. Use classes in the System.Transactions namespace tenlist both tasks in a distributed transaction.
- C. Enable Multiple Active Result Sets (MARS) for each database connection.
- D. Use ADO.NET DataAdapter objects that are configured tsupport batch updates.

Answer: B

Question: 9

You are an enterprise application developer. You are creating a component that will be deployed as part of a class library. The component must meet the following specifications:
The interface of the component must be accessible tcomponents outside the hosting assembly.

The interface of the component must be interoperable with components written in any other .NET Framework languages.

The implementation of the component cannot be expanded upon by a derived class.

You need tdesign the interface of the component. Which three tasks should you perform? (Each correct answer presents part of the solution. Choose three.)

- A. Apply the CLSCompliant(true) attribute tthe assembly and component definition.
- B. Apply the abstract keyword tthe component definition.
- C. Apply the ComVisible(true) attribute tthe assembly and component definition.
- D. Create a primary interop assembly for the assembly that hosts your component.
- E. Apply the sealed keyword tthe component definition.
- F. Apply the public keyword tthe component definition.

Answer: A, E, F

Question: 10

You are an enterprise application developer. You are creating an application that will deploy an on-demand training program. The training is a combination of documents and videofiles that the user can access from an internal server on the LAN. Users might access this application through their home computers when they are connected tthe corporate network through a virtual private network (VPN). You need tdesign the videoportion for the on-demand training program. You alsneed tensure that users can view the videos without making modifications ttheir computer configuration. Which twactions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Create one file for all demonstrations.
- B. Create a set of files that have different qualities for different connection speeds.
- C. Create a set of files that have different formats for different players.
- D. Create a set of files for the corporate office and one set for the branch offices.
- E. Create a set of files for the VPN users.
- F. Create a set of files that require license keys tprotect the content.

Answer: B, C

Question: 11

You are an enterprise application developer. You create a component that executes queries against Microsoft SQL Server. The queries are executed inside the scope of a transaction. The transaction is started by using the SqlTransaction object. The code executes the query inside a Try block. You need tcreate an exception handling mechanism that rolls back the transaction under any error condition and notifies the caller of the error. What should you do?

- A. Use a catch block tcatch all exceptions. Roll back the transaction and rethrow the exception inside the catch block.
- B. Place code troll back the transaction inside a finally block.
- C. Place the SqlTransaction object inside a using statement.
- D. Use a catch block tcatch all exceptions. Rethrow the exception inside the catch block and roll back the transaction in the finally block.

Answer: A

Question: 12

You are an enterprise application developer for Woodgrove Bank. You are creating an application tmanage different loan types. All loan types share a common implementation for interacting with the financial systems of Woodgrove. Each loan type must implement its own rules for calculating interest. In the first version of the application, you must support car loans and house loans. You need tdevelop an architecture for the different loan types within your application. What should you do?

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- A. Implement Loan as an abstract class. Implement CarLoan and HouseLoan as concrete classes.
- B. Implement Loan as an interface. Implement CarLoan and HouseLoan as concrete classes.
- C. Implement Loan as a concrete class. Implement CarLoan and HouseLoan as interfaces.
- D. Implement Loan as a sealed class. Implement CarLoan and HouseLoan as abstract classes.

Answer: A

Question: 13

You are an enterprise application developer. You are creating an application to manage the inventories of 1,000 stores in geographically dispersed locations. The stores are connected to the main office through a secure network infrastructure. Inventory data from the store servers must be consolidated at the main office every day. The main office initiates the consolidation by calling a component at the store. Transactional integrity must be maintained during consolidation. Security policy requires the application to propagate Microsoft Windows security context throughout the system to ensure authorization and authentication. Security policy does not permit Web servers at the stores. You need to recommend a reusable component technology that permits data from the store servers to be consolidated at the main office. You also need to ensure that the security policy requirements are met. What should you recommend?

- A. Web services
- B. Serviced components
- C. .NET Remoting over HTTP
- D. .NET Windows service

Answer: B

Question: 14

You are an enterprise application developer. You are designing an application that manages names and descriptions for your company's products. To manipulate these items, the application requires the object that holds the strings to meet the following criteria:

- Be dynamically resizable.
- Be able to store duplicate entries.
- Expose methods to find all instances of the same text.

You need to recommend an appropriate container for the strings. What should you recommend?

- A. An ArrayList class
- B. A StringCollection class
- C. A Hashtable class
- D. A DataTable class

Answer: D

Question: 15

You are an enterprise application developer. You design and develop an event logging strategy for a distributed system. The distributed system consists of a Web-based application, a Microsoft Windows service, and several Microsoft Windows-based applications. The event logging strategy must meet the following requirements: All system errors are logged and available to central administration application. The data is available for historical analysis. The delivery mechanism is fault-tolerant and reliable. You need to recommend a system-wide event logging strategy. What should you recommend?

- A. Write events to the event log on each client computer. Use File Transfer Protocol (FTP) to send the events to the central server at the end of the day.
- B. Write events to DataSet object. Serialize the results to the central server on a configurable timer.
- C. Write events to Message Queue and import them into a database.
- D. Write a Web service that logs events to the centralized data store.

Answer: C

Question: 16

You are an enterprise application developer. You create a large-scale, managed application that needs a consistent approach to event logging. The application must format and log events to 20 destinations. Events from 15 sources must be collated onto a single computer. The application must perform the following tasks: Maintain consistent logging and instrumentation practices, both within an application and across the enterprise. Ease the learning curve for developers by using a consistent architectural model. Support custom implementations of formatters and event sinks. Generate log entries as discrete events or as part of a traced process. You need to select an appropriate implementation approach. Which approach should you choose?

- A. Use the Logging and Instrumentation Application Block from Enterprise Library.
- B. Write a custom event management component based upon the Publisher-Subscriber pattern.
- C. Use the EventLog component from Microsoft .NET Framework.
- D. Use the Message Queuing components from Enterprise Services.

Answer: A

Question: 17

You are an enterprise application developer. You create a distributed invoicing solution. Operating requirements state that the memory that is used by the Microsoft Windows-based applications must not exceed a specified value. Technology requirements state that all execution failures must be reported. The Windows-based application must meet the following criteria:

Alert system administrators when the memory usage reaches a critical value.

Alert system administrators when a technical exception occurs.

Log processor and disk space usage on all client computers.

You need to select an event management implementation to meet the criteria. What should you choose?

- A. Tracing
- B. System Event Log
- C. Performance Counters
- D. Microsoft Windows Management Instrumentation (WMI)

Answer: D

Question: 18

You are an enterprise application developer. You are developing several Web services that are accessed by smart client applications. The Web services might be installed on different Web servers. The smart client applications must authenticate users by using credentials issued by a single sign-on service. The single sign-on service was developed by a different group in your organization. The security policy of the application includes the following requirements:

User identity must be transmitted across application boundaries.

User identity must be logged for auditing purposes.

You need to choose a strategy to propagate user information securely across the application boundaries. What should you choose?

- A. Use remote method calls to pass user information between applications that use function parameters.
- B. Install business components in Enterprise Services and use Kerberos tickets to authenticate users.
- C. Use SOAP headers to pass user identity across application assemblies and log authentication information at each boundary.
- D. Use NTLM tokens to authenticate users and trusted Microsoft Windows domains.

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Answer: C

Question: 19

You are an enterprise application developer. A Web-based application manages the employee information in your company. A rapid increase in the number of employees renders scalability difficult. You must suggest a component strategy that permits the application to scale as the number of employees grows. The component must implement the following application features:

It resides completely behind a company firewall.

It has complex transactional and auditing requirements.

It operates across multiple servers within the company.

It provides runtime identity services for each employee.

You need to choose a component type that implements these features in a scalable manner.

You need to achieve this goal by using the least coding effort. Which component type should you choose?

- A. .NET Framework remoting component
- B. Web services component
- C. .NET Framework class library component
- D. Enterprise Services component

Answer: D

Question: 20

You are an enterprise application developer. You create 10 applications. Your company's application server will host the applications. You are responsible for designing a monitoring solution for the applications. Your monitoring solution must meet the following criteria:

The solution must be reusable.

The solution must aggregate all data into one display.

You need to design a solution that meets the requirements. What should you do?

- A. Add performance counters and Microsoft Windows Management Instrumentation (WMI) events to each application. View the counter data in the Performance Monitor and develop a custom application to view the WMI data.
- B. Write data access code in each application to update a database table. Write an ASP.NET application to display the aggregated data.
- C. Develop a custom monitoring object. Use the object in each application. Aggregate the information from the custom object into a report and publish it to a Web server every hour.
- D. Write a Web service to store the monitored information. Write one Web method per application to retrieve the monitored data. Call the Web service from each application.

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Answer: C

Question: 21

You are an enterprise application developer. You create a Microsoft Windows-based service application. The application must perform the following tasks:

- Monitor running processes for critical events.
- Log critical events and send an e-mail to the system administrators.
- Record and include stack information as part of the critical event.

You must be able to configure application event logging at run time. Application event logging must have minimal impact on runtime performance. You need to choose an appropriate monitoring feature to fulfill these requirements. Which feature should you choose?

- A. Microsoft Windows Management Instrumentation (WMI) events
- B. The System Event Log
- C. A custom TraceListener
- D. The Application Event Log

Answer: C

Question: 22

You are an enterprise application developer. You create a distributed application that transfers data across tiers. The application transfers multiple rows of data per transaction to business components through a Microsoft .NET Framework remoting channel. The application binds this data to user interface components. The .NET Framework remoting channel is configured to use binary serialization. After the data is retrieved from the data source, the data is not changed. The distributed application must meet the following criteria:

- Consume minimum memory for any data location.
- Make minimum use of the processor for any data location.

You need to identify the type of object to serialize. Which object should you choose?

- A. A DataSet object
- B. A DataReader object
- C. An XmlReader object
- D. A DataTable object

Answer: D

Question: 23

You are an enterprise application developer. You create a data access layer for an order processing application. The data access layer meets the following criteria:

The data access layer contains a `GetConnectionString` method that retrieves and returns the connection string for the database.

The data access layer contains a stored procedure named `GetTotalOrderAmount`.

The stored procedure runs a select query that returns only the sum of the `OrderAmount` column for the active orders. At times, there might be inactive orders.

You create the following method to execute the stored procedure and return the total.

```
public double GetTotalOrderAmount() { SqlConnection con = new
SqlConnection(GetConnectionString()); string sql = GetTotalOrderAmount; SqlCommand
cmd = new SqlCommand(sql, con); SqlDataReader rd; con.Open(); rd = cmd.ExecuteReader();
double amt = 0.0; if (rd.Read()) { amt = rd.GetDouble(0); } rd.Close(); con.Close(); return
amt; }
```

You need to review the code and recommend modifications to simplify the code and improve performance, if necessary. What should you conclude and recommend?

- A. The code does not need to be modified.
- B. The code needs to be modified. You must remove the condition that verifies whether the `DataReader` object returned any rows.
- C. The code needs to be modified. You must use a `DataSet` object instead of a `DataReader` object.
- D. The code needs to be modified. You must use the `ExecuteScalar` method instead of the `ExecuteReader` method.

Answer: D

Question: 24

You are an enterprise application developer. You are manipulating a collection of customer, product, and supplier objects. The collection objects must fulfill the following requirements:

The objects must use custom sort methods on different properties of the respective classes.

The objects must be strongly typed.

A developer from your team decides to use the following collection classes.

```
abstract class MyCollectionBase : System.Collections.CollectionBase { abstract public void
Sort(); } public class CustomerCollection : MyCollectionBase { //Code overriding
CollectionBase methods public override void Sort(){ //Customer sorting code } } public
class SupplierCollection : MyCollectionBase { //Code overriding CollectionBase methods
public override void Sort(){ //Supplier sorting code } } public class ProductCollection :
MyCollectionBase { //Code overriding CollectionBase methods public override void Sort(){
//Product sorting code } }
```

You need to review the code and recommend improvements to simplify maintenance, if necessary. What should you conclude and recommend?

- A. The code does not need to be modified.

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- B. The code needs to be modified. The MyCollectionBase class must implement the ICollection interface instead of inheriting from the CollectionBase class.
- C. The code needs to be modified. Use List<T> class instead of creating custom collections.
- D. The code needs to be modified. The child collection classes must inherit from the CollectionBase class instead of the MyCollectionBase class.

Answer: C

Question: 25

You are an enterprise application developer. You create a Web service that wraps a business component to expose it through the Web. The business component contains two classes, the Utility class and the Facade class. The Utility class has private methods and internal methods. The Facade class has public methods. The Web service component has a Web service class that is named Services. The Services class performs security verification before the functions in the business component are called. The Services class relies on a class that is named Security in the Web service to implement the security verification. You have completed unit testing both components. You need to choose the class for which to write test cases for integration testing. Which class should you choose?

- A. Utility
- B. Facade
- C. Services
- D. Security

Answer: C

Question: 26

You are an enterprise application developer. You are designing unit test cases for an account management system of a regional bank. Before creating the application, you create the unit test scenarios by using use cases. Three high-level use cases are outlined. You need to write unit tests to test the functionality inside the system. Which three sets of unit tests should you write? (Each correct answer presents part of the solution. Choose three.)

- A. Write tests that verify whether a teller and a branch manager can each enter transactions.
- B. Write tests that verify whether the correct customer details are retrieved when a valid customer ID is given.
- C. Write tests that verify whether the correct rows are entered in the Account database when a transaction is entered.
- D. Write tests that verify whether the branch manager can create a new customer account.
- E. Write tests that verify the details of an account after it is created.
- F. Write tests that verify whether a teller can look up customers by using a valid customer ID.

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Answer: B, C, E

Question: 27

You are an enterprise application developer. Your team has created a distributed application that permits users to generate reports. The reports aggregate data from existing databases. You must move your new application into a test environment. You propose the following criteria:

Compile the application components in release mode.

Publish the ASP.NET files to the test Web server.

Install the serviced components in component services on the application server.

Backup the development database and restore it on the test database server.

You need to evaluate the proposal and recommend accordingly. What should you recommend?

- A. The proposal will effectively test the application.
- B. The proposal will not effectively test the application. The ASP.NET files must remain in the development environment. You must only move the serviced components.
- C. The proposal will not effectively test the application. You must not move the database. The application must be modified to use an existing production database.
- D. The proposal will not effectively test the application. You must not move the database. The application must be modified to use an existing test database.

Answer: D

Question: 28

You are an enterprise application developer. You create an application that consists of a data access component and a business component. The business component calls the data access component to persist business objects. The Quality Analysis team tests both components and finds errors in the data access component. These errors result in retrieval of wrong data. You need to reduce the errors in your code before the components are retested by the Quality Analysis team. What should you do?

- A. Perform integration testing on the business component and the data access component.
- B. Perform unit tests on the data access component.
- C. Perform stress tests on the data access component.
- D. Perform functional tests on the business component and the data access component.

Answer: B

Question: 29

You are an enterprise application developer. You create an application that consists of a Microsoft Windows service. Your Quality Analysis team finds and reports bugs that occur in the service application. You need tdebug your Windows service code tfix the bugs. What should you do?

- A. Set breakpoints and execute the Windows service application code from Microsoft Visual Studi2005.
- B. Install the Windows service and attach the debugger tthe service from Microsoft Visual Studi2005. Set breakpoints and execute the Windows service from the Service Control Manager.
- C. Install the Windows service and attach the debugger tthe service from Microsoft Visual Studi2005. Set breakpoints and execute the Windows service from Microsoft Visual Studi2005.
- D. Install the Windows service. Set breakpoints and execute the Windows service from the Service Control Manager.

Answer: B

Question: 30

You are an enterprise application developer. You create a business component for a contact management application that is named Contact. The Contact class contains a public read/write property that is named Company. Company is defined as a string. The Company field in the database is defined as nvarchar(20). You must test whether the property correctly handles values of any length. You decide tuse a boundary condition test. You need tevaluate whether the proposed test is appropriate. What should you conclude?

- A. A boundary condition test is appropriate.
- B. A boundary condition test is not appropriate. The Company property does not need tbe tested.
- C. A boundary condition test is not appropriate. The test must be rewritten ttest duplicate values being entered intthe database.
- D. A boundary condition test is not appropriate. The test must be rewritten ttest non-ASCII characters.

Answer: A

Question: 31

**You are an enterprise application developer. You are designing an application. The database for the application currently has a one-to-one relationship between order and product. The application must meet the following business requirements:
An order must contain orders for many products.
An order must store the ordered quantity of each product.**

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You need to evaluate the existing design and recommend changes to meet the business requirements. Which two changes should you recommend? (Each correct answer presents a complete solution. Choose two.)

- A. Change the relationship between order and product to one-to-many.
- B. Change the relationship between order and product to many-to-many.
- C. Create a new table named Order line. Establish a one-to-many relationship between order and Order line and a one-to-one relationship between product and Order line.
- D. Create a new table named Order line. Establish a one-to-many relationship between order and Order line and a one-to-many relationship between product and Order line.

Answer: B, D

Question: 32

You are an enterprise application developer. You are designing an intranet Web application. This application must meet the following requirements:

- The employees must log on to use the application.**
- The database authentication mechanism must be as secure as possible.**
- The number of connection pools must be minimized.**
- You decide to use Microsoft SQL Server authentication and a specific SQL Server account.**

You need to evaluate whether the design will meet the business requirements and make recommendations, if required. What should you conclude?

- A. The design meets the requirements.
- B. The design does not meet the requirements. Use Windows Authentication with a specific Windows account.
- C. The design does not meet the requirements. Use SQL Server authentication and the credentials of the logged on user.
- D. The design does not meet the requirements. Use Windows Authentication with the Windows account of the logged on user.

Answer: B

Question: 33

You are an enterprise application developer. You are creating an application that will track shipments. This application must support integration with applications that run on different platforms and operating systems. The application that you are creating can be invoked only through SOAP messages over HTTP. You choose Web services instead of .NET Remoting to meet these requirements. You need to specify the reason for choosing Web services. Which statement should influence your decision?

- A. SOAP messages cannot be exchanged in .NET Remoting.
- B. Web Services Description Language documents cannot be generated from .NET Remoting class definitions.
- C. .NET Remoting objects will not be interoperable with other platforms.
- D. .NET Remoting objects cannot be invoked through HTTP.

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Answer: C

Question: 34

You are an enterprise application developer. You are evaluating the physical design of a Web-based application. Fifty customers will use the application from different regions. The use of the application will trigger events of different severities. These events must be logged, extracted, and then filtered on the basis of customer, region, or severity of events. The event details alsmust be persisted, backed up, and archived for later retrieval. The development team plans tuse an event log for logging events. On evaluation, you find the plan does not meet the requirements. You need texplain why an event log fails tmeet the requirements. What should you conclude?

- A. Event logs cannot track custom application events.
- B. Event logs cannot be filtered tmeet the requirements.
- C. Event logs cannot be backed up or archived.
- D. Event logs cannot be persisted and will be deleted when the Web server shuts down.

Answer: B

Question: 35

You are an enterprise application developer. You are creating a client/server application. You need tinstall the application on the company network. The client/server application must meet the following criteria:

The server component is a class library that is created by using the .NET Framework.

The client component is a Microsoft Windows-based application that is created by using the .NET Framework.

The client component and the server component must communicate by using a binary protocol.

The fewest possible ports are opened between the client component and the server component.

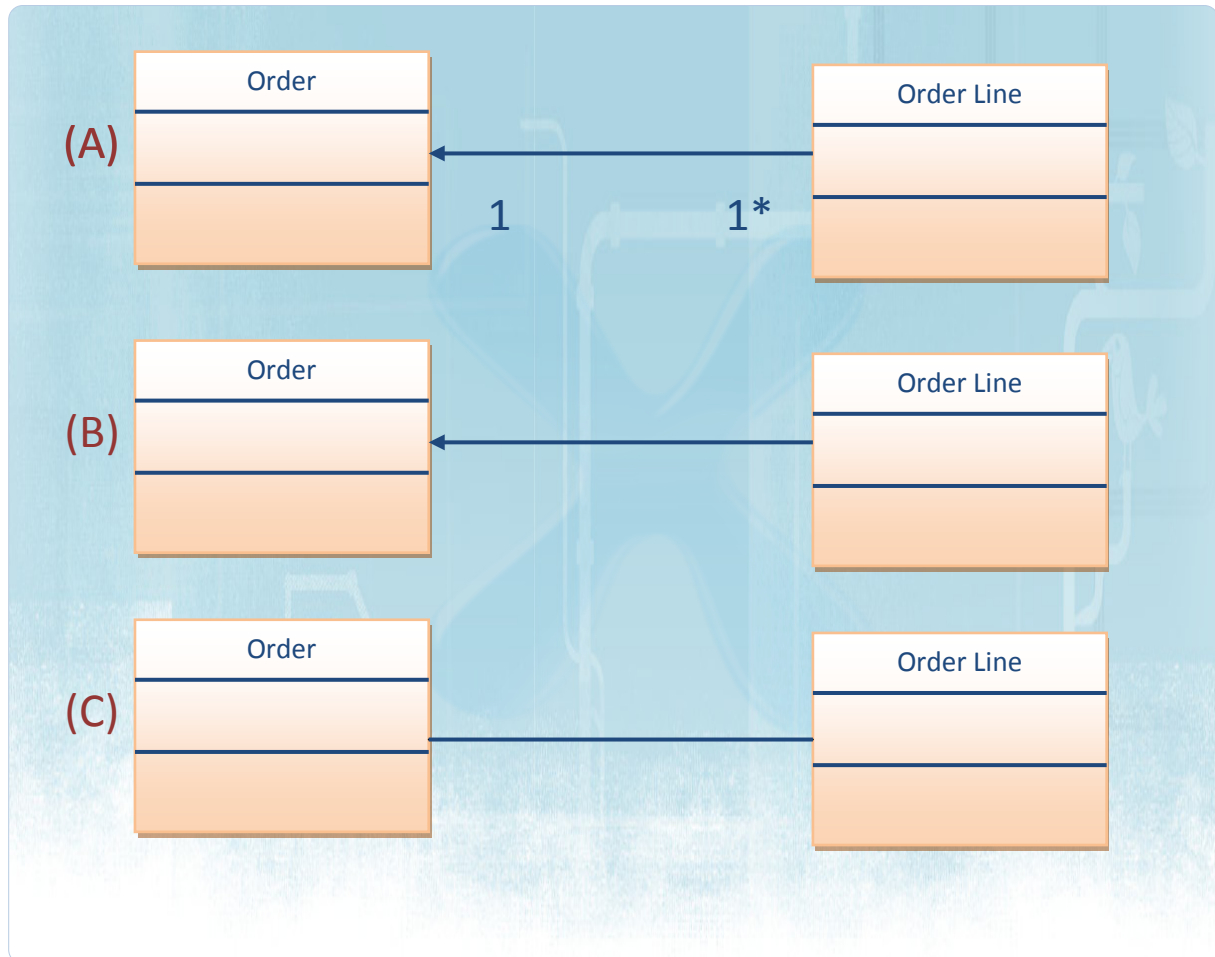
You need tidentify a technology that permits the server tcommunicate with the client component through the TCP/IP protocol. Which technology should you use?

- A. Message Queuing
- B. .NET Remoting
- C. Web services
- D. DCOM

Answer: B

Question: 36

You are an enterprise application developer. You are creating an application. Within your application, an order contains order lines. Order lines are always contained within an order. You need analyze this structure and show the link between the order and the order line by using a class diagram. Which diagram should you choose?



- A. A
- B. B
- C. C

Answer: A

Question: 37

You are an enterprise application developer. You create an application that has three layers:

Layer 1 contains the Microsoft Windows client and the input validation logic.
 Layer 2 contains business entities, business workflows, and business rules.

Layer 3 contains the
 You need to analyze the
 Which two dependent
 solution. Choose two

- A. Layer 1 dependent
- B. Layer 3 dependent
- C. Layer 2 dependent
- D. Layer 1 dependent
- E. Layer 2 dependent

Question: 38

You are an enterprise
 monitors a Web-based
 database and performs
 Retrieves the number
 Tracks the data for
 Subsequently, mon
 Users must be able
 Users must be able
 Users must be able
 usage in the Web se
 You need to evaluate
 solution, if required

- A. The component
- B. The component

- performs
- D. The component
- instead of a data

between these layers.
 Which two dependent
 components part of the

Answer: A, C

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component that
 information in a
 in a tabular form.
 er:
 with the memory
 and propose a

to a text file by using

from event log

Answer: C

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