Microsoft_PrepKing_70-565_v2012-03-12_85q

Exam : Microsoft_PrepKing_70-565

Ver :2011-11-25

Question : 85

Exam A

QUESTION 1
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
You purchase a logging component along with the source code from a third-party vendor.
New versions of the component are frequently released by the same vendor.
You require certain additional features that might be present in a future release of the logging component.
You need to consume the logging component in the application.
You also need to ensure that the component can be replaced with a new version by using the minimum amount of development effort.
What should you do?

A. Reference the logging component in the application.Implement additional features as a separate utility class within the application.
B. Add the source code for the logging component in your current application.Implement additional features within the application.
C. Wrap the logging component in a class library.Implement additional features in the class library.Reference the class library in the application.
D. Modify the source code for the logging component.Implement additional features by modifying the code.Reference the modified logging component in the application.

Correct Answer: C
Section: (none)
**Explanation**

Explanation/Reference:

QUESTION 2
You are designing business layer classes by using the .NET Framework 3.5 and Microsoft SQL Server 2008.
The business classes will be used by a banking application. The class diagram for the business classes is as shown in the exhibit. (Click the Exhibit button.)
You need to ensure that the application meets the following requirements:
- Users are allowed to select only one of the three operationswithdraw, deposit, and get balance.
- Access to other members of the business objects is disallowed.
- Future types of accounts can be handled.
- Use of the operations directly from the class is disallowed.
- Child classes inherited from the business layer classes are prevented from overriding these operations. What should you do?
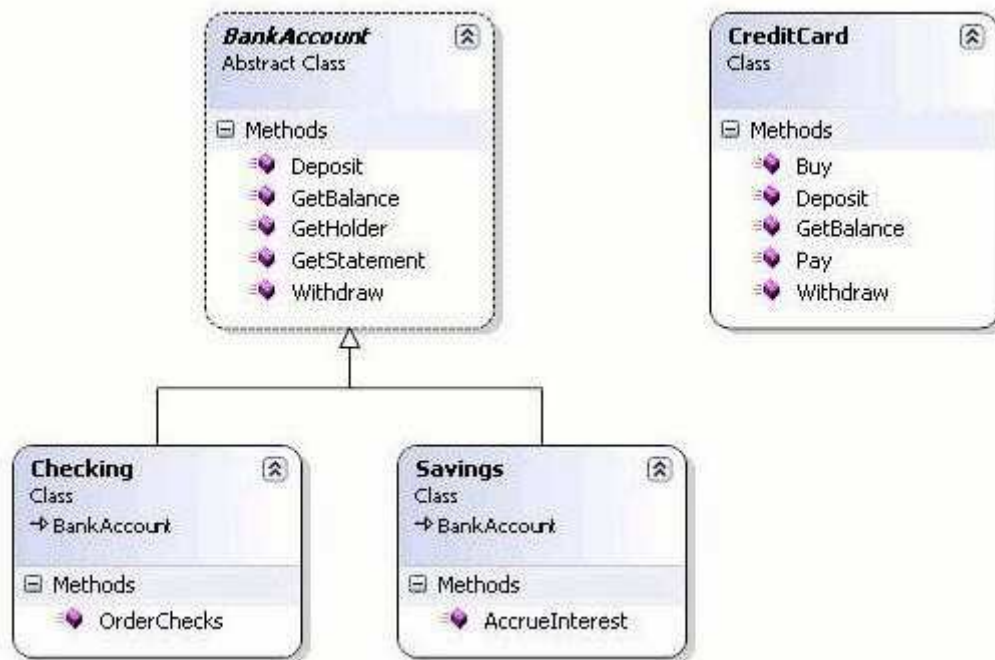
A. Create a new abstract class. Add the Deposit, Withdraw, and GetBalance methods to the new class.
   Change the BankAccount and CreditCard classes to inherit from the new class.
   Use the abstract class to handle operations to any object in the bank hierarchy.

B. Create a new concrete class.Add the Deposit, Withdraw, and GetBalance methods to the new class.
   Change the BankAccount and CreditCard classes to inherit from the new class.
   Use an instance of the concrete class to handle operations to any object in the bank hierarchy.

C. Create a new interface.Add the Deposit, Withdraw, and GetBalance methods to the new interface.
   Change the BankAccount and CreditCard classes to explicitly implement the members of the new interface.
   Use the interface to handle operations to any object in the bank hierarchy.

D. Create a new interface.Add the Deposit, Withdraw, and GetBalance methods to the new interface.
   Change the BankAccount and CreditCard classes to implicitly implement the members of the new interface.
   Use the interface to handle operations to any object in the bank hierarchy.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 3
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application includes a class that contains several public methods that modify the object state.
Object state is encapsulated in private data members. You need to ensure that your unit tests meet the
following requirements:
- Call public methods.
- Validate the expected behavior by checking the values of private data members.
- Fail to compromise object security or encapsulation.
What should you do?

A. Replace private data members with public members.
B. Use the publicize.exe utility to create a private accessor for the class library.

C. Add the [AttributeUsageAttribute(AttributeTargets.Method, AllowMultiple = true)] decoration to the class.
D. Add public methods to the class that can be called by unit tests to verify that the private data members provide expected values.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 4
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
You plan to add an existing .NET component into the current application. The .NET component has insufficient documentation.
The structure of the classes in the component must be analyzed before they are incorporated in the application.
You need to analyze the members in the component and the dependencies among them.
What should you do?

A. Enable logging on the component.
B. Run a code profiler on the component.
C. Create a class diagram for the component.
D. Create a sequence diagram for the component.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 5
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5. You have a pre-defined database schema.
You plan to design a business object layer in the application. The business object layer must map each database table in the schema to an objectin the layer.
The application must provide support for different database providers.
You need to identify a technology to implement the business object layer by using the minimum amount of development effort.
Which technology should you use?

A. LINQ to SQL
B. LINQ to XML
C. Microsoft Sync Framework
D. ADO.NET Entity Framework

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 6
You create a Windows Forms application by using Microsoft Visual Studi .NET 2008 and the .NET Framework 3.5.

The application is installed on several computers on the network.
All unhandled and unexpected exceptions must be logged to a central location to allow reporting for administrator users.
You need to record the exception details. What should you do?

A. Write the details to the local XML file.
B. Write the events to the Windows event log.
C. Write the details to the Microsoft SQL Server database.
D. Log the events by using Event Tracing for Windows.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 7
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5. The application communicates with other systems by using a proprietary messaging format. The company must monitor the response-time of the communication. The monitoring strategy of the application must meet the following requirements:
- Information must be logged to a central location.
- Historical data must not be overwritten without administrator action.
- Information can be displayed in real time.
- Information can be displayed in graphical format.
- Information can be displayed along with system-supplied performance data.
You need to design a strategy that monitors response-times to meet the requirements.
What should you do?

A. Install the network monitoring tool to display the amount of data processed by the servers.
B. Record the message response-times in a log file by using the System.IO.Log namespace.
C. Record the message response-times in the Windows Event Log service by using the System.Diagnostics.EventLog namespace.
D. Create custom performance counters for the message response-times. Use the System.Diagnostics.PerformanceCounter namespace.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 8
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application uses a Web farm to host several Windows Communication Foundation (WCF) services.
The services receive messages from several clients over the Internet that implement the same data contract.
You develop a new version of the data contract. An older version of the data contract had elements that were

optional that are now required.
Default element is an acceptable variation for the optional element.Not all customers will be able to implement the new version of the data contract
before you complete deployment to the entire Web farm.You need to define a validation strategy that will ensure that all the clients can successfully
communicate by using the new data contract.
What should you do?

A. Use a message filter.
B. Use a message inspector.
C. Use a custom WCF transport.
D. Use a rules-driven WCF router.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 9
You create an ASP.NET application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application uses a Microsoft SQL Server database. During testing, the application intermittently logs the following exception message:
   "Transaction (Process ID xxx) was deadlocked on lock resources with another process and has been chosen as the deadlock victim. Rerun the transaction."
The error cannot be reproduced in the development environment. You need to identify the root cause of the exception.
What should you do?

A. Use Event Viewer.
B. Use SQL Server Profiler.
C. Use Performance Monitor.
D. Configure the system.transactions trace source in the Web.config file.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 10
You create an application by using Microsoft Visual Studio 2008 and the .NET Framework 3.5.
The application is hosted on a Web server that runs Microsoft Windows Server 2003. It connects to a third-party system by using Web service calls.
The third-party system experiences occasional unplanned outages. When a system outage occurs, the application must perform the following tasks:
- Log error details.
- Notify an on-call technician.
You need to develop a strategy to perform the required tasks.
What should you do?

A. Use the System.Diagnostics.EventLog and the System.Net.Mail namespaces.
B. Use the System.Diagnostics.EventLog and the System.Net.PeerToPeer namespaces.
C. Use the System.IO.Log namespace and the System.Diagnostics.Trace class.

D. Use the System.IO.Log and the System.Diagnostics.Eventing.Reader namespaces.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 11
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5. The application contains the following components:
 - A business tier component
 - A data access tier component
 - A Microsoft SQL Server database
The database stores sales order data. You plan to design a validation strategy that meets the following requirements:
- For each order, the ship date must be greater than the order date.
- Validation errors must be detected as early as possible.
- Validation must be enforced regardless of which applications or application components modify the order data.
You need to ensure that the validation strategy meets the specified requirements. Which two actions should you perform?
(Each correct answer presents part of the solution. Choose two.)

A. Create a trigger.
B. Create a CHECK constraint.
C. Create a DEFAULT constraint.
D. Implement the validation logic in a business tier code.
E. Implement the validation logic in a data access tier code.

Correct Answer: BD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 12
You create an ASP.NET application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
You need to ensure that the application meets the following requirements:
- Logs all the Web requests before authentication occurs
- Logging is performed for all types of requests
What should you do?

A. Write the logging code in the ProcessRequest method of an HttpHandler class.
B. Write the logging code in the LogRequest application event of an HttpModule class.
C. Write the logging code in the BeginRequest application event of an HttpModule class.
D. Write the logging code in the AuthenticateRequest application event of an HttpModule class.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 13
You are creating multiple enterprise applications by using the .NET Framework 3.5. All the applications will be deployed on a single computer.
You purchase a COM component from a third-party vendor. You plan to reuse a specific functionality of the component in the applications.
The COM component will be used by 25 developers who work on different applications.
You need to ensure that the types referenced in the COM component are compatible among the developers.
 What should you do?

A. Use the P/Invoke service.
B. Obtain the primary interop assembly from the vendor.
C. Use the [ComVisible(true)] attribute for all the application assemblies.
D. Ensure that each developer creates a wrapper class for the COM component.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 14
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application connects to a Microsoft SQL Server 2005 database by using LINQ to SQL. The database contains a table named MarketTransaction.
The MarketTransaction records must be validated against certain business rules before they are added to or updated in the database.
You need to design a validation strategy for the MarketTransaction records. You also need to ensure that the schema changes do not affect the validation code.
What should you do?

A. Implement validation as an OnValidate static extension method to the MarketTransaction class.
B. Implement validation in a new partial class that implements the OnValidate method as a partial method.
C. Implement validation by adding an OnValidate method in the MarketTransaction class inside the .cs file that is generated by LINQ to SQL.
D. Implement validation by creating a new business logic class named MarketTransactionBL.
    Design this class to inherit the MarketTransaction class and implement an OnValidate method.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 15
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application includes a set of Windows Communication Foundation (WCF) services to authorize and settle credit card transactions.
A separate service is implemented for each credit card provider. However, the same service contracts and data contracts are used across all implementations.
The incoming requests to the service must conform to the contracts.
You need to implement validation to meet the requirement by using a minimum amount of development effort.
What should you do?

A. Use the CustomValidator class.
B. Inspect input parameters directly in the service method.

C. Implement the IDispatchMessageInspector interface.
D. Implement a custom class that inherits from the SoapExtension class.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 16
You create a logging utility class by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5. The class writes logs to event log services.
You need to ensure that the client applications that use the class can create an instance of the class only if they have permissions to write to the event log services. What should you do?

A. Use role-based security in a class constructor.
B. Use role-based security declaratively on the class.
C. Use code access security declaratively on the class.
D. Use the AllowPartiallyTrustedCallersAttribute attribute on the assembly.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 17
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application must use a local data store to support those applications that connect occasionally.
You need to ensure that the local data store meets the following requirements:
- It does not create additional services on client computers.
- It provides synchronization capabilities to other data stores.
Which local data store should you use?

A. Serialized XML
B. Microsoft SQL Server 2008 Express Edition
C. Microsoft SQL Server 2008 Compact Edition
D. Microsoft SQL Server 2008 Workgroup Edition

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 18
You are designing a component for a Windows Forms application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The component will process a long-running business transaction. You plan to provide the status of completion of the transaction to the users.
You need to ensure that the application displays a progress bar that reports the percentage of completion of the transaction.
You need to achieve this goal without using the polling method.
What should you do?

A. Use a delegate to asynchronously invoke the component from the user interface.
   Create a property in the component to expose the completion progress.
   Read the property value from the user interface and display the value by using a progress bar.
B. Use a delegate to asynchronously invoke the component from the user interface.
   Raise an event from the component to report the completion progress.
   Subscribe to the event from the user interface and display the percentage of completion by using a progress bar.
C. Use a BackgroundWorker object to asynchronously invoke the component.
   Set the WorkerReportsProgress property of the object to true.
   Use a progress bar in the user interface to display the completion progress.
   Use the ProgressChanged event to update the progress bar.
D. Use a BackgroundWorker object to asynchronously invoke the component.
   Set the WorkerReportsProgress property of the object to true.
   Create a property in the component to expose the completion progress.
   Read the property value from the user interface and display the value by using a progress bar.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 19
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5. You plan to deploy the application.
The .NET Framework 3.5 is not installed on all client computers.
You need to deploy the application only on client computers that have the .NET Framework 3.5 installed.
What should you do?

A. Use the bootstrapping feature of the ClickOnce deployment method.
B. Use the bootstrapping feature of the Microsoft Windows Installer (MSI) deployment method.
C. Include the .NET Framework 3.5 in the platform dependencies of the ClickOnce deployment method.
D. Use registration-free COM components for deployment. Set the Isolated property of the COM components to true.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 20
You create a Windows application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application interacts with several processes and services on the same server and uses CPU-intensive computations.
The application is deployed to all desktop computers on a local network.
One user reports that the application takes too long to respond and sometimes freezes during an operation.
You need to gather information about the current behavior of all components and the operating system.
What should you do?

A. Collect event log data and analyze the logs.
B. Collect performance log data and analyze the logs.
C. Profile the application by using the sampling method.

D. Profile the application by using the instrumentation method.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 21
You create an ASP.NET application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
You deploy the application to the test Web farm along with a network load balancer.
You are using InProc session settings in the Web.config file to manage user sessions. The application fails to function properly in the test Web farm.
You discover that changes to non- serializable user information are not reliably persisted across the Web farm.
You need to ensure reliable persistence of user information. You also need to ensure that the changes involves the minimum amount of configuration effort.
What should you do?

A. Use cookieless sessions.
B. Use SQLServer session-state mode.
C. Use StateServer session-state mode.
D. Update the network load balancer to use session affinity settings.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 22
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
You are deploying the application on your company network. The deployment must meet the following requirements:
- Supports post-installation rollback.
- Supports deployment through Active Directory Group Policy.
- Ensures that the application is added to the Start menu.
You need to identify a deployment method that meets the requirements by using the minimum amount of administrative effort.
Which method should you use?

A. Use the XCOPY installation method.
B. Use the Microsoft Installer (MSI) installation method.
C. Use the ClickOnce Installer method, and allow the users to install the application.
D. Use the ClickOnce Installer method, and request the administrator to install the application.

Correct Answer: B
Section: (none)

Explanation

Explanation/Reference:

QUESTION 23
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application includes two namespaces named Contoso.Security and Contoso.Log.
Classes in the Contoso.Security namespace will be distributed for use in a data access layer component.
Classes in the two namespaces will be distributed for use by other client components in the application.
Not all client components will use both the Contoso.Security and Contoso.Log classes.
You plan to design a strategy for component reuse. You need to ensure that unnecessary code is not distributed to any client application.
You also need to ensure that all necessary code is available to dependent components.
What should you do?

A. Create one assembly for the Contoso.Security and Contoso.Log namespace classes.
   Reference the assembly from the data access layer components.
B. Create one assembly for the Contoso.Security namespace classes.
   Create one assembly for the Contoso.Log namespace classes.
   Reference the Contoso.Security assembly from the data access layer components.
C. Create one assembly for the Contoso.Security namespace classes.
   Create one assembly for the Contoso.Log namespace classes.
   Reference the Contoso.Log assembly from the data access layer components.
D. Create one assembly for the Contoso.Security namespace classes.
   Create one assembly for the Contoso.Log namespace classes.
   Reference the two assemblies from the data access layer components.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 24
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application has the following specifications:
- Obtains data from a Web service and the corporate database.
- Uses the data to perform lengthy mathematical calculations.
- The application takes a long time to display the results.
You need to ascertain the cause of the slow response time. You also need to gather as much detailed data as possible.
What should you do?

A. Create a load test.
B. Create a Microsoft SQL Server Profiler trace.
C. Create a performance session and use the sampling method to collect performance data.
D. Create a performance session and use the instrumentation method to collect performance data.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 25
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application includes a server component that implements business rules and communicates with a
Microsoft SQL Server database.
The component is implemented as a .NET Framework 3.5 assembly. You discover that the performance of the
application degrades over a period of time.
You need to gather data on the performance of the component. You also need to minimize the effect of logging
on the performance of the application.
What should you do?

A. Create a load test.
B. Create a Microsoft SQL Server Profiler trace.
C. Create a performance session and use sampling to collect performance data.
D. Create a performance session and use instrumentation to collect performance data.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 26
You create an ASP.NET application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
To access a Microsoft SQL Server database, the application reads the following connection string from the
Web.config file.

Server=SQL1;Database=Contoso;Integrated Security=SSPI;

The application is configured to use the Microsoft Internet Information Services (IIS) anonymous authentication.
You deploy the application to a production server that hosts several corporate ASP.NET applications.
You discover that database authentication fails on the production server. You need to ensure that the
application can connect to the database.
You also need to ensure that no additional applications are granted access to the database.
What should you do?

A. Grant the ASP.NET worker process user account access to the database.
B. Grant the IIS anonymous user account access to the database.
C. Create a SQL login for the application and grant the login access to the database. Modify the connection
   string to use this login.
D. Replace the connection string with the following one.
   Server=SQL1;Database=Contoso;Trusted_Connection=True;

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 27
You create an application by using Microsoft Visual Studio 2008 and the .NET Framework 3.5.
The application uses a Windows Workflow Foundation controller component to call an ASP.NET Web service.
You need to develop an integration test to ensure that the Web service and the Workflow component interact
appropriately.
What should you do?

A. Write a test stub to perform the functions of the Web service proxy.
B. Write a test stub to perform the functions of the Workflow component.
C. Write a test driver that ensures that the Web service proxy returns the expected data.
D. Write a test driver that ensures that the Workflow component calls the appropriate method on the Web service proxy.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 28
You create an ASP.NET application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
You develop a load testing strategy for the application. The application has the following business requirements:
- It must support 5,000 simultaneous users.
- It must support the Microsoft Internet Explorer 6.0, 7.0, and 8.0 versions.
- It must support third-party browsers.
You need to ensure that the application meets the business requirements.
Which load testing scenario should you use?

A. Test mix
B. Browser mix
C. Network mix
D. Load pattern

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 29
You create an ASP.NET application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application conforms to the following specifications:
- It runs on a host server.
- It functions without administrative privileges.
- It uses a method named GetConnectionString.
The GetConnectionString method reads the database connection strings from the Machine.config file.
During the test process, attempts to load a page that uses the GetConnectionString method fail.
The following error message is displayed:
   "Access Denied"
You need to ensure that the GetConnectionString method functions appropriately.
What should you do?

A. Sign the assembly that contains the GetConnectionString method.
B. Modify the GetConnectionString method to use the Web.config file.
C. Configure the URL of the application as a trusted site in the Web browser.
D. Decorate the GetConnectionString method by using the Unsafe attribute.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 30
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application contains the following modules:
- Mathematical utility modules
- Data access modules
- Geographical modules
The geographical modules are not ready for testing at this stage. However, all the other modules are complete.
You need to design an integration testing strategy that allows you to test all completed modules.
You also need to ensure that the strategy minimizes regression testing when the remaining modules are complete.
What should you do?

A. Develop test drivers for the geographical modules.Use a top-down approach to test the remaining modules.
B. Develop test stubs for the geographical modules.Use a top-down approach to test the remaining modules.
C. Develop test drivers for the mathematical and data access modules.Use a bottom-up approach to test the geographical modules.
D. Develop test stubs for the mathematical and data access modules.Use a top-down approach to test the geographical modules.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

Exam B

QUESTION 1
You create an ASP.NET application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application contains an ASP.NET Web page that will be accessible through the Internet.
The page contains a Web form that captures data that will be stored in a Microsoft SQL Server 2008 database.
The form currently uses a POST method. The page also contains JavaScript validation routines.
The validation routines will be used to ensure that the input to the form meets the business requirements and does not contain any code that is harmful.
There is currently no server-side validation being performed. You need to review the application and resolve security flaws in the page.
What should you do?

A. Create new server-side validation routines.
B. Change the method of the form action to GET.
C. Move the validation routines to a separate ASPX page.
D. Ensure the <script> tag is not contained in the header element of the page.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 2
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
You design a performance testing instrumentation strategy for the application. The performance tests must gather the following metrics:
- Average CPU utilization percentage
- Time duration of method calls
- Maximum number of simultaneous users
You need to design a code instrumentation strategy to capture the required information.
What should you do?

A. Use Event Tracing for Windows in the code.
B. Use the Custom Performance counters in the code.
C. Use Microsoft Enterprise Instrumentation Framework.
D. Use the Windows Management Instrumentation counters in the code.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 3
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5. The application has four major components.
Only one component is completely developed. You need to ensure that the developed component meets the functional requirements.
What should you do?

A. Perform a design review.
B. Use Visual Studio Code Analysis.
C. Develop unit tests for your component.

D. Develop load tests for your component.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 4
You create an ASP.NET application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
You design a performance testing strategy for the application.
The application uses the DataGridView and TreeView controls that are bound to the DataSets object.
You need to find out the size of the ViewState object when you perform a load test on the application.
What should you do?

A. Enable page tracing.
B. Use Transaction Cost Analysis.
C. Use an ASP.NET performance counter.
D. Enable the logging of the bytes that are sent to IIS.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 5
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application includes a server component that receives DataTable objects from client components.
Each DataTable object contains approximately 2,500,000 rows.
The server component must load new and updated records from the DataTable objects into a table in a
Microsoft SQL Server 2005 database.
The schemas of the database table and the DataTable objects are identical. The database is located on a
different server than the application server component.
You need to identify a method that provides the best performance to load the data into the database table.
Which method should you use?

A. Use the bcp utility.
B. Use a SqlBulkCopy object.
C. Use the BULK INSERT statement.
D. Use a parameterized stored procedure.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 6
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application has a class that contains a method named NewEvent. The NewEvent method contains the
following code segment.

using (SqlConnection cn = new SqlConnection(connString))

```
{
  SqlCommand cmd = new SqlCommand();
  cmd.Connection = cn;
  cmd.CommandText = "prcEvent";
  cmd.Parameters.Add("@Date", SqlDbType.DateTime, 4);
  cmd.Parameters.Add("@Desc", SqlDbType.VarChar, 8000);
  cmd.Parameters.Add("@Link", SqlDbType.VarChar, 2048);
  cmd.Parameters["@Date"].Value = date;
  cmd.Parameters["@Desc"].Value = eventText;
  cmd.Parameters["@Link"].Value = eventLink;
  cn.Open();
  retcode = cmd.ExecuteNonQuery().ToString();
}
```
During the test process, a user executes the NewEvent method. The method fails and returns the following error message:

"A stored procedure named prcEvent requires a parameter named @Date."

You need to resolve the error.
What should you do?

A. Set the CommandText property of the cmd object to dbo.prcEvent.
B. Set the CommandType property of the cmd object to CommandType.TableDirect.
C. Set the CommandType property of the cmd object to CommandType.StoredProcedure.
D. Replace the ExecuteNonQuery method of the cmd object with the ExecuteScalar method.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 7
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
You plan to create the presentation layer of the application.
Users will access the application on Windows Vista client computers that have the .NET Framework 3.5 installed.
You need to ensure that the application meets the following requirements:
- It runs in Microsoft Internet Explorer.
- It provides maximum usability by using 3D graphics and animations. It does not require additional components to be installed on the client computers.
What should you do?

A. Use a Microsoft ASP.NET application.
B. Use a Microsoft Silverlight application.
C. Use Windows Presentation Foundation Browser Application.
D. Use a Windows Presentation Foundation application along with the ClickOnce deployment.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 8
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The component will return custom business objects.
You plan to develop a design strategy that meets the following requirements:

- The component can be accessed by the .NET Windows applications and JavaScript-based Web applications.
- The component can be consumed by the client applications by using the minimum amount of code.
- The least amount of network bandwidth is consumed.
You need to implement the design strategy by using the minimum amount of development effort.
What should you do?

A. Develop the component as a Web service. Return the business objects as XML.
B. Develop the component as a Windows Communication Foundation service. Return the business objects as serialized binary objects.
C. Develop the component as a Windows Communication Foundation service. Return the business objects as JavaScript Object Notation objects.
D. Develop the component as a Web service. Return the business objects as strings that contain the values of the properties concatenated and separated by a comma.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 9
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5. The application includes multiple components.
The components communicate by passing messages to each other. You are planning to update the application to meet new business requirements.
You need to document the application logic. You also need to ensure that the documentation captures the details of the component interaction.
What should you do?

A. Use a class diagram.
B. Use a Use case diagram.
C. Use a sequence diagram.
D. Use a component diagram.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 10
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
You configure the Windows Communication Foundation (WCF) service to be exposed by using the HTTP and TCP endpoints.
You plan to deploy the WCF service. You need to identify the host environment that provides the following services:
- Message-based activation
- Health management
- Process recycling capabilities
Which hosting environment should you use?

A. Microsoft COM+ 1.5
B. Microsoft Windows Service
C. Microsoft Internet Information Services 6.0

D. Microsoft Windows Process Activation Service

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 11
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
You evaluate the design of a Microsoft SQL Server 2005 database that stores data for the application.
Several queries share a common SELECT statement.
The only difference between the SELECT statement in each query is a parameter that is used in the WHERE
clause.
The SELECT statement is used in joins and subqueries.
You need to ensure that the database queries can be easily maintained.
What should you do?

A. Use a view.
B. Use a trigger.
C. Use a stored procedure.
D. Use a table-valued function.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 12
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application exposes a Windows Communication Foundation (WCF) service that will be consumed by an
ASP.NET application.
The WCF application and the ASP.NET application will be deployed on the same server.
You need to ensure that the WCF service meets the following requirements:
- The communication between the applications incurs minimum latency.
- The binding satisfies the ordered delivery constraint that is specified in the service implementation by using
the DeliveryRequirements attribute.
Which binding object should you use?

A. NetTcpBinding
B. WSHttpBinding
C. NetPeerTcpBinding
D. NetNamedPipeBinding

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 13
You create an ASP.NET application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application will be deployed to a Microsoft Windows Server 2008 server.

Intranet users will access the application by using Windows Vista client computers.
The Web server, client computers, and Windows user accounts are located in the same Active Directory.
You need to identify an appropriate authentication mechanism that meets the following requirements:
- Supports security impersonation and delegation.
- Avoids passing user credentials as clear text.
Which authentication mechanism should you use?

A. NTLM
B. Basic
C. Digest
D. Kerberos

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 14
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application design specifies the following components:
- A user interface implemented as an ASP.NET 3.5 Web application
- A Microsoft SQL Server 2005 database to store business data
- A Windows Communication Foundation (WCF) service that authenticates users that have their credentials stored in the SQL Server database
- A business data service to transfer data between the user interface and the SQL Server database
- In future releases, the application must also be able to authenticate business partners who use non-Microsoft directory servers to store user credentials.
You need to ensure that the application design meets the extensibility requirements.
What should you do?

A. Implement the business data service as a WCF service.
B. Host the Web application on multiple load-balanced Web servers.
C. Add an abstraction layer between the user interface and the authentication service.
D. Implement database objects that store the corporate user credentials in the same SQL Server database as the business data.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 15
You create an ASP.NET application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application uses the Session object to store data. The application is currently deployed to a single server.
You need to ensure that the application is available in the event of failure of any single server.
Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

A. Host the application in a Web farm environment.
B. Host the application in a Web garden environment.
C. Use the SQLServer mode to store the session state.
D. Use the StateServer mode to store the session state.
E. Use the Application object instead of the Session object to cache data.

Correct Answer: AC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 16
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
You are designing the database schema of the application.
The database schema is as shown in the exhibit. (Click the Exhibit button.)
You need to ensure that the design meets the following requirements:
- The database contains no duplicate data.
- A category can contain zero or more products.
- Each product can be associated with zero or more categories.
What should you do?

A. Create a CategoryID column in the Products table.
   Create a foreign key constraint from the Products table to the Categories table on CategoryID.
B. Create a ProductID column in the Categories table.
   Create a foreign key constraint from the Categories table to the Products table on ProductID.
C. Create a CategoryID column in the Products table.
   Create a foreign key constraint from the Products table to the Categories table on CategoryID.
   Create a ProductID column in the Categories table.
   Create a foreign key constraint from the Categories table to the Products table on ProductID.
D. Create a ProductsCategories table that includes the ProductID and CategoryID columns.
   Create a foreign key constraint from the ProductsCategories table to the Products table on ProductID.
   Create a foreign key constraint from the ProductsCategories table to the Categories table on CategoryID.
   Create a compound primary key on the ProductsCategories table that includes the ProductID and
   CategoryID columns.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 17
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
You are creating a high-level design for the application. You identify several functionalities that can be
developed as reusable components.
You need to identify the public interface for each component from the application design.
What should you do?

A. Design class diagrams.
B. Design state diagrams.
C. Design activity diagrams.
D. Design sequence diagrams.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 18
You create a class library by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
When an instance of the class is created, the class acquires a handle from the WIN32 DLL and saves the
handle to a data member.
You need to identify a strategy to ensure that the Win32 DLL handle releases resources when they are no
longer being used.
What should you do?

A. Extend the ContextBoundObject class.
B. Include the SupressUnmanagedCode attribute.
C. Call the GC.Collect method in the finalizer of the class.
D. Implement the IDisposable interface, and include a Close method.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 19
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
You plan to use an existing unmanaged component in the application. The unmanaged component includes
two methods to calculate taxes.
The first method calculates taxes for individuals and the second method calculates taxes for organizations. You
need to provide a single method to calculate taxes.
You also need to consume the unmanaged component within the application.
Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

A. Override the current tax calculation method.
B. Use the Tlbimp.exe tool and add a new class to the output.
C. Create a new tax calculation method that accepts parameters.
D. Use the Tlbimp.exe tool and create a wrapper class that references the output.
E. Create multiple configuration files for the different tax calculation method calls.

Correct Answer: CD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 20
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.

The application will be used by multiple types of users. The application will also interact with external applications.
You need to design the interaction among the application, the users of the application, and the external applications.
What should you do?

A. Create a class diagram.
B. Create a timing diagram.
C. Create a Use case diagram.
D. Create a state machine diagram.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 21
You are creating a Web application for an enterprise solution by using Microsoft SQL Server 2008 and the .NET Framework 3.5.
The application environment has the following specifications:
- Several users access the same data.
- Data does not change frequently.
The database schema is as shown in the exhibit. (Click the Exhibit button.)
You need to build the business logic layer to meet the following requirements:
- Support the DataRelation class.
- Minimize redundant data.
- Maintain the design of the original schema.

What should you do?
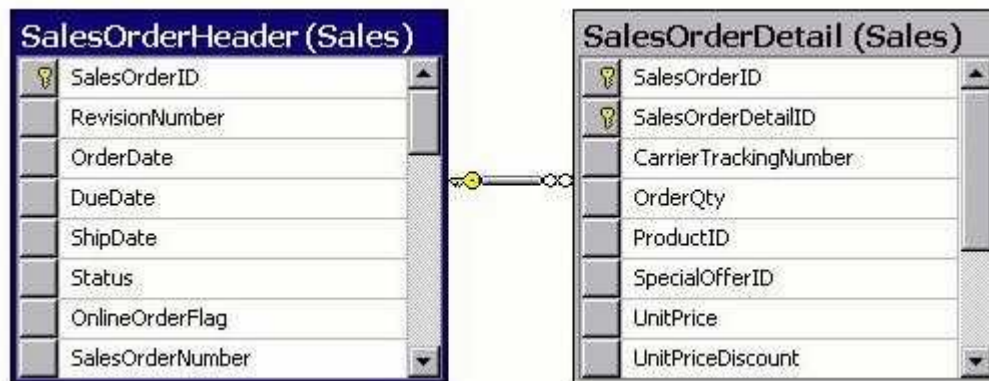
A. Populate SalesOrderHeader objects for the primary key.
   Populate a SalesOrderDetail object for each associated foreign key.
   Save the SalesOrderDetail objects in the memory cache for subsequent data retrieval.
B. Populate SalesOrderAll objects that contain all fields from the SalesOrder and SalesOrderDetail tables.
   Save the SalesOrderAll objects in the memory cache for subsequent data retrieval.
C. Populate SalesOrderHeader objects for the primary key.
   Populate a SalesOrderDetail object for each associated foreign key.
   Save the SalesOrder objects in the memory cache for subsequent data retrieval.
D. Populate SalesOrderHeader objects for the primary key by using a field that contains the foreign key.
   Implement a method to populate the SalesOrderDetail object that matches the associated foreign key.
   Call the implemented method when a field is required.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 22
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application includes a component. The component will be referenced by the .NET and COM applications.
The component contains the following code segment.
public class Employee
{
  public Employee(string name)
  {}
}
The .NET and COM applications must perform the following tasks:
- Create objects of the Employee type.
- Use these objects to access the employee details.
You need to ensure that the .NET and COM applications can consume the managed component.
What should you do?

A. Change the Employee class to a generic class.
B. Change the constructor to a no-argument constructor.
C. Set the access modifier of the class to internal.
D. Set the access modifier of the constructor to protected.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 23
You create a Web Service by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The Web service will retrieve data from text files in a network share. The network share uses the NTFS file
system permissions.
You need to design a component that allows users to access only the files for which they have the necessary
permission.
What should you do?

A. Enable Windows Authentication in Microsoft Internet Information Services. Use impersonation to access the
    files.
B. Enable Windows Authentication in Microsoft Internet Information Services. Configure IIS to use Secure
    Sockets Layer (SSL).
C. Use a custom header to authenticate the user. Impersonate the user by using a CustomIdentity object to
    access the files.
D. Use a custom header to authenticate the user. Impersonate the user by using a WindowsIdentity object to
    access the files.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 24
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application includes a data tier component that communicates with multiple databases. Some databases
are hosted on Microsoft SQL Server 2008.
Other databases are hosted on third- party database servers. The data tier component receives custom
business objects from client application components.
You need to ensure that the data tier component saves property values from the business objects to the
databases.
What should you do?

A. Use LINQ to SQL.
B. Use LINQ to Objects.
C. Use the SqlBulkCopy class.
D. Use the OleDbCommand class.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 25
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
You create a component to handle user authorization. The component contains a class named
SecurityManager that has a method named CheckRights.
The CheckRights method is called by several classes within the component. You need to prevent the
CheckRights method from being called directly by
the applications that consume the component.
What should you do?

A. Set the [MTAThread] attribute for the CheckRights method.
B. Set the access modifier of the CheckRights method to private.
C. Set the access modifier of the CheckRights method to internal.
D. Set the [ComVisible(false)] attribute for the CheckRights method.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 26
You are designing a class library by using the .NET Framework 3.5 and Microsoft SQL Server 2008.
The class library will be used by several .NET applications. The class library will contain a utility class that
executes advanced mathematical operations.
You need to design the utility class to meet the following requirements:
- It can be accessed only by other classes in the same .NET assembly.
- It can be instantiated only once.
What should you do?

A. Create a public class along with an internal constructor.
B. Create an internal class along with an internal constructor.
C. Create a public class along with a private constructor. Expose a public static method that returns an

instance of the class.

D. Create an internal class along with a private constructor. Expose an internal static method that returns an instance of the class.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 27
You are creating a business component by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The component manages the interest rates on new loans. You need to ensure that all online applications that access the component are notified
of the changes as soon as they occur. You need to achieve this goal by using the minimum amount of network bandwidth.
What should you do?

A. Create a serviced component.
   Use loosely coupled events to send notifications to the applications about the changes made.
B. Create a serviced component.
   Expose a method that will be called by the applications to verify whether the interest rates have changed.
C. Create a Windows Communication Foundation (WCF) service.
   Write a code segment that alerts all users of the application by using e-mail when the changes are made.
D. Create a Windows Communication Foundation (WCF) service.
   Expose a method that will be called by the applications to verify whether the interest rates have changed.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 28
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application includes the following components:
- A Windows Presentation Foundation (WPF) user interface
- A class library that implements business logic
You provide documentation to allow customers to use the class library in custom applications. This class library will throw a custom exception.
This custom exception will include a state that provides security-sensitive information.
You need to design the exception to meet the following requirements:
- The unit tests and the WPF user interface can retrieve security-sensitive information.
- Customer applications cannot retrieve security-sensitive information.
What should you do?

A. Create a custom code access security permission that can be used to secure your exception type.
B. Report security-sensitive information in a custom property that has a non-obvious property name.
C. Report security-sensitive information through an override of the System.Object.ToString method only after demanding an appropriate permission. If the permission demand fails, then return a string that does not include the security-sensitive information.
D. Report security-sensitive information through an override of the System.Object.ToString method only after verifying the calling application path. If the verification fails, then return a string that does not include the security-sensitive information.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 29
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application currently generates output to a comma-delimited text file. Users have requested the output be generated to an XML file, a PDF file, or an HTML file.
You need to design the application to allow output in different formats. You also need to allow addition of different output format types without recompilation of the application. Which three actions should you perform? (Each correct answer presents part of the solution. Choose three.)

A. Create separate methods for each output format type.
B. Create a separate assembly for each output format type.
C. Create an interface for output format type classes to inherit.
D. Create an assembly that contains a class for each output format type.
E. Use an if.. then.. else block to decide the type of output.
F. Use the System.Reflection namespace to load the proper output type.

Correct Answer: BCF
Section: (none)
Explanation

Explanation/Reference:

QUESTION 30
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
You are designing a data contract for a Windows Communication foundation (WCF) service that will be hosted by the application.
You need to ensure that the data contract meets the following requirements:
- It does not support Schema versioning.
- It allows additional contract and additional elements to be included over time.
- It allows the client applications to submit messages that contain additional elements without error.
What should you do?

A. Use the IsRequired property.
B. Use the DataMemberAttribute attribute.
C. Implement the IMetadataExchange interface.
D. Implement the IExtensibleDataObject interface.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

Exam C

QUESTION 1
You create an ASP.NET application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application is installed on a Microsoft Windows 2003 server and manages several expense accounts.
The application uses Forms authentication to manage user logins. The user login information is stored in a database.
You need to generate a report that displays the user access details of the expense accounts for each user login.
What should you do?

A. Enable ASP.NET tracing.Generate the report from the trace output.
B. Record the user access details in the database.Generate the report from the data stored in the database.
C. Enable login auditing on the Windows 2003 server.Parse the Windows security event log during report generation.
D. Use the System.Diagnostics.Eventing namespace to record the user access details in the event log. Use the System.Diagnostics.Eventing.Reader namespace to extract log data.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 2
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5. The application includes a Windows Forms user interface.
The user interface connects to the business logic layer and binds the controls directly to the objects that are exposed by the business logic layer.
A class in the business logic layer performs validation of input values and implements the IDataErrorInfo interface.
You need to provide feedback to users when the business logic layer reports a validation error.
What should you do?

A. Implement a new class that inherits the ValidationRule class.
B. Use the GiveFeedback event on the controls to detect errors.
C. Use the ErrorProvider control to detect and display validation errors.
D. Catch the ValidationError exceptions by using the TRY/CATCH blocks.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 3
You create a Windows Communication Foundation (WCF) application by using Microsoft Visual Studio 2008 and the .NET Framework 3.5.
You plan to implement an instrumentation strategy for the application.
You add the following code fragment in the configuration file of the application.
<system.diagnostics>
  <sources>
    <source name="System.ServiceModel.MessageLogging">
      <listeners>
        <add name="messages" type="System.Diagnostics.XmlWriterTraceListener" initializeData="c:\logs

\messages.svclog" />
      </listeners>
    </source>
  </sources>
</system.diagnostics>

You need to ensure that the instrumentation strategy meets the following requirements:
- Incoming and outgoing messages are logged completely.
- Secure messages must be logged decrypted.
What should you do? (Each correct answer presents part of the solution. Choose two.)

A. Add the switchValue="Verbose" attribute to the source element.
B. Configure WCF message logging by using the logEntireMessage="true" attribute.
C. Configure WCF message logging by using the logMessagesAtServiceLevel="true" attribute.
D. Configure WCF message logging by using the logMalformedMessages="false" attribute.
E. Configure WCF message logging by using the logMessagesAtTransportLevel="true" attribute.

Correct Answer: BC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 4
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5. The
application contains several classes.
A code review reveals redundant business logic within the classes in the application.
You need to eliminate the redundant business logic in the classes. What should you do?

A. Implement a newly created interface in the related classes.
    Move the shared declarations to the interface.
B. Create an abstract base class and inherit the classes from the base class.
    Move the duplicated properties and behaviors into the base class.
C. Create a nested public class within each of the related classes.
    Encapsulate the shared properties and behaviors in the public class.
    Use the nested public class in the parent classes.
D. Create a nested private class within each of the related classes.
    Encapsulate the shared properties and behaviors in the private class.
    Use the nested private class in the parent classes.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 5
You are designing an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application implements the following design:
- Client applications will be accessed by using a mobile device or a browser.
- All client applications will connect to a Windows Communication Foundation (WCF) service.
- All client applications will use Microsoft SQL Server Compact 3.5.
You need to ensure that the client applications can perform the following tasks:
- Maintain local copies of data offline.
- Synchronize changes.

- Detect data conflicts.
What should you do?

A. Use LINQ to SQL.
B. Use merge replication.
C. Use Entity Framework.
D. Use the Microsoft Sync Framework.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 6
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application exposes a Windows Communication Foundation (WCF) Web service. The Web service is consumed by third-party applications.
You need to ensure that the WCF service provides interoperable and secure end-to-end communications.
What should you do?

A. Use the netTcpBinding binding along with the message-level security.
B. Use the wsHttpBinding binding along with the message-level security.
C. Use the basicHttpBinding binding along with the transport-level security.
D. Use the netNamedPipeBinding binding along with the message-level and the transport-level securities.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 7
You create an ASP.NET application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application retrieves a large amount of application-wide data from a database. The data retrieval is very slow. The data gets refreshed every 30 minutes.
You need to ensure that the data is available for frequent access. You also need to make the most efficient use of resources.
Which storage mechanism should you use?

A. View state
B. Session state
C. Application state
D. Application cache

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 8
You create a solution by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The solution contains a Microsoft Windows Forms application and a Windows Communication Foundation
(WCF) service.
You discover that when the application is run, certain tasks take a very long time to execute. You verify that all
CPUs are idle while these tasks are being executed.
You need to design a strategy to identify the methods that cause the tasks to be delayed in the application.
What should you do?

A. Edit the diagnostics element in the Web.config file of the WCF service.
B. Edit the serviceHostingEnvironment element in the Web.config file of the WCF service.
C. Create a performance session by using the instrumentation method.
    Add the Windows Forms application and the WCF service to the session.
D. Create a performance session by using the sampling method.
    Add the Windows Forms application and the WCF service to the target list of the session.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 9
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
You plan to implement a data access component to retrieve product data from a corporate database.
The component will return data for the products that meet the defined criteria.
You need to ensure that the component conforms to the following requirements:
- Access to the database is provided only when necessary.
- The database schema is hidden from the application that calls the component.
- Calls are returned by the component as quickly as possible.
What should you do?

A. Create a typed collection.
    Use System.Linq to verify the cached collection.
    Retrieve all products if data is not cached.
B. Create a typed collection.
    Use System.Linq to verify the cached collection.
    Retrieve a subset of products if data is not cached.
C. Create a DataTable object.
    Use the Select method to verify whether the object contains the necessary data.
    Retrieve all products if data is not cached.
D. Create a DataTable object.
    Use the Select method to verify whether the object contains the necessary data.
    Retrieve a subset of products if data is not cached.

Correct Answer: B
Section: (none)

Explanation

Explanation/Reference:

QUESTION 10
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
Users access the application by using Windows-based client applications or Web-based client applications.
All client applications share common business logic to handle transaction processing requests.
You need to ensure that the application is easy to maintain. What should you do?

A. Create a single component and host the component on each client application.
B. Create a single component and host the component on a separate application tier.
C. Create separate components and host the components on each application tier.
D. Create separate components and host the components on each client application.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 11
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application processes sales order documents. The application contains a component that retrieves the
sales order documents from a FTP server
and stores the data in a Microsoft SQL Server database. You need to ensure that the component meets the
following requirements:
- Periodically polls the FTP server to check for new order documents
- Executes without dependencies on other software components
- Executes without user interaction
- Executes by using a specific security context
- Allows system administrators to change the security context by retaining the same component code What
should you do?

A. Develop the component as a Web service.
B. Develop the component as a Windows service.
C. Develop the component as a Windows application.
D. Develop the component as a Windows Communication Foundation service.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 12
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The ASP.NET application connects to a shared Microsoft SQL Server 2008 database instance.
The application requires certain changes in the relationships represented in the data. However, any changes to
the database schema can break
existing applications that share the database instance. You need to recommend a strategy that allows the
application to make the required relationship
changes without affecting the underlying database schema. You also need to ensure that the strategy uses the
minimum amount of development effort.

Which strategy should you recommend?

A. Generate a model by using LINQ to SQL.
   Make the relationship changes to the model.
B. Generate an ADO.NET Entity Framework model.
   Make the relationship changes in the model.
C. Add an HTTP endpoint to SQL Server 2008 database to retrieve the data from the database in tabular format.
D. Create a DataSet object and add a DataTable object for each table in the database.
   Create a DataRelation object for each relationship required for the application.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 13
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application stores human resources data in a Microsoft SQL Server 2008 database. A partial database schema is as shown in the exhibit.
(Click the Exhibit button.) Each time a row is added, modified, or deleted from the Employee table, a corresponding entry must be recorded
in the EmployeeChangeLog table. You need to implement the data change logging.
What should you do?

Employee	
PK	**EmployeeID**
	Name
	StartDate
	PositionID
	Salary
	BonusStructure

EmployeeChangeLog	
PK	**RowID**
	ChangeDate
	ChangedBy
	ChangeType
	EmployeeID
	ColumnModified
	OriginalValue
	NewValue

A. Create a trigger on the Employee table.
B. Add a user-defined function to the database.
C. Add a CHECK constraint to the Employee table.
D. Create a foreign key on the EmployeeChangeLog table that references the Employee table.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 14
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application consists of the following components:

- An ASP.NET Web application that is deployed on a Web server named WEB1
- An ASMX Web service that is deployed on an application server named APP1
- A Microsoft SQL Server database that is deployed on a database server named SQL1

The ASP.NET application connects to an ASMX Web service. The APP1 server hosts several ASMX Web service applications.

The ASMX Web service stores and retrieves data from SQL1.

You need to ensure that the secure communication strategy meets the following requirements:
- The communication configuration between WEB1 and APP1 must be secured without other applications being affected.
- Server authentication and data encryption must be performed between APP1 and SQL1.

Which two secure communication protocols should you use? (Each correct answer presents part of the solution. Choose two.)

A. Use Secure Sockets Layer between APP1 and SQL1.
B. Use Secure Sockets Layer between WEB1 and APP1.
C. Use Internet Protocol Security between APP1 and SQL1.
D. Use Internet Protocol Security between WEB1 and APP1.
E. Use Remote Procedure Call encryption between APP1 and SQL1.
F. Use Remote Procedure Call encryption between WEB1 and APP1.

Correct Answer: BC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 15
You create a Windows Communication Foundation (WCF) service by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.

The service exposes two endpoints. The first endpoint is configured to use the Issued Tokens authentication method. The second endpoint is configured to use the Digital Certificates authentication method. Additional endpoints along with different authentication mechanisms will be created in the future.

You plan to define the authorization strategy for the service. You need to ensure that the WCF service meets the following requirements:
- Authorization rules for validation are the same, regardless of the type of the user credential.
- Users are prevented from executing restricted WCF operations.
- Fine-grained authorization is provided to protected resources.

What should you do?

A. Use the System.Security.Permissions.PrincipalPermission class.
B. Use Identity Model to implement a claims-based authorization strategy.
C. Use the System.Security.Permissions.PrincipalPermissionAttribute attribute.
D. Use Windows Access Control Lists to implement a resource-based authorization strategy.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 16
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5. The application exposes a Windows Communication Foundation (WCF) service. The service will be consumed by a client-side code that runs in the Web pages of an ASP.NET AJAX Web application. You need to ensure that data serialization between the service and the application incurs minimum latency. Which data format should

you use?

A. Binary
B. JavaScript Object Notation
C. Extensible Markup Language
D. Really Simple Syndication 2.0

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 17
You create a Windows Communication Foundation (WCF) application by using Microsoft Visual Studio 2008
and the .NET Framework 3.5.
You create a WCF service by using the following code segment. (Line numbers are included for reference
only.)

```
01 [ServiceContract]
02 public interface IContosoService
03 {
04    [OperationContract]
06    void ProcessTransaction();
07 }
09 public class ContosoService : IContosoService
10 {
11    public void ProcessTransaction() {
12       try {
13             BusinessComponent.ProcessTransaction();
14          }
15       catch (ApplicationException appEx)
17        {}
18    }
19 }
```

The BusinessComponent.ProcessTransaction method will only throw exceptions from the ApplicationException
type.
You plan to debug the WCF service. You need to ensure that the WCF service meets the following
requirements:
- Detailed exception information is provided to the client application.
- Subsequent calls can be issued to the service by using the same proxy intance after an exception is caught in
the client application.
What should you do?

A. Add the following code segment at line 08. [ServiceBehavior(IncludeExceptionDetailInFaults=true)]
   Add the following code segment at line 16. throw appEx;
B. Add the following code segment at line 05. [FaultContract(typeof(ApplicationException))]
   Add the following code segment at line 16. throw appEx;
C. Add the following code segment at line 08. [ServiceBehavior(IncludeExceptionDetailInFaults=true)]
   Add the following code segment at line 16. throw new FaultException<ApplicationException>(appEx);
D. Add the following code segment at line 05. [FaultContract(typeof(ApplicationException))]
   Add the following code segment at line 16. throw new FaultException<ApplicationException>(appEx);

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 18
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application will be used on personal computers and mobile-based devices. The current application design
is composed of the following three layers:
- User interface layer
- Business layer
- Data access layer
You need to ensure that the application offers a custom experience to the end user based on the type of device
used.
You also need to ensure that code duplication is avoided.
What should you do?

A. Implement different business layers for mobile-based devices and personal computers.
   Implement a single service layer to expose the business layer to the user interface.
B. Implement different data access layers for mobile-based devices and personal computers.
   Implement a single business layer to expose business objects to the user interface.
C. Implement different user interface layers for mobile-based devices and personal computers.
   Implement a single user interface process layer to expose business objects to the user interface.
D. Implement different user interface process layers for mobile-based devices and personal computers.
   Implement a single user interface to expose data by using rules from the user interface process layer.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 19
You create an application by using Microsoft Visual Studio 2008 and the .NET Framework 3.5.
You plan to design the business layer of the application. The business layer must meet the following
requirements:
- It must expose the business operations as Web services.
- It must provide built-in long-running transaction capabilities.
You need to identify an appropriate technology to implement the business layer.
Which technology should you use?

A. Microsoft COM+
B. Microsoft ASMX Web Services
C. Microsoft Messaging Queue
D. Microsoft Windows Workflow Services

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 20
You create applications by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
You deploy a new Windows Forms application in a test environment. During the test process, an error message
that includes an incomplete stack trace is reported.

You review the following code segment that has caused the error.

```
public int AddNewMission(DateTime date, string mission, string missionLink)
{
  try
  {
    DALCode pgr = new DALCode("cnWeb");
    int retcode = pgr.AddNewMission(date, mission, missionLink);
    return retcode;
  }
  catch (Exception ex)
  {
    throw new Exception(ex.Message);
  }
  finally
  {
    pgr.Dispose();
  }
}
```

You need to modify the code segment to display the entire stack trace.
What should you do?

A. Remove the CATCH block.
B. Remove the FINALLY block.
C. Add a Using block to the TRY block.
D. Replace the THROW statement in the CATCH block with throw(ex).

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 21
You create a Windows Forms application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application contains the following code segment.

```
public DataSet GetProductByID(string ProductID)
{
  DataSet ds = new DataSet("ProductList");
  string SqlSelectCommand = "Select * FROM PRODUCTS WHERE PRODUCTID=" + ProductID;
  try
  {
    SqlDataAdapter da = new SqlDataAdapter();
    SqlConnection cn = new SqlConnection(GetConnectionString());
    SqlCommand cmd = new SqlCommand(SqlSelectCommand);
    cmd.CommandType = CommandType.Text;
    cn.Open();
    da.Fill(ds);
    cn.Close();
  }
  catch (Exception ex)
  {
    string msg = ex.Message.ToString();
    //Perform Exception Handling Here
  }
  return ds;
}
```

You need to ensure that the code segment is as secure as possible.
What should you do?

A. Ensure that the connection string is encrypted.
B. Use a StringBuilder class to construct the SqlSelectCommand string.
C. Add a parameter to the cmd object and populate the object by using the ProductID string.
D. Replace the SELECT * statement in the SqlSelectCommand string with the SELECT <column list> statement.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 22
You create an ASP.NET application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
You are developing a test strategy for the application. The application must meet the following requirements:
- Render reports by using Microsoft SQL Server 2005 Reporting Services (SSRS).
- Support 750 concurrent users.
You need to identify a test strategy that ensures that the application meets the requirements.
Which type of test should you use?

A. Unit Test
B. Load Test
C. Smoke Test
D. Generic Test

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 23
You create an ASP.NET application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application contains data access code that connects to either Microsoft SQL Server 2005 or Microsoft SQL Server 2008.
When the application is connected to SQL Server 2008, it uses the enhanced functionality available only in SQL Server 2008.
You plan to develop a functional testing strategy for the application. You need to ensure that the functional testing strategy meets the following requirements:
- Unit tests are executed properly when connected to either version of SQL Server.
- Unit testing code is reused to the maximum extent possible.
What should you do?

A. Create a unit test class for SQL Server 2005.
   Create a unit test class for SQL Server 2008.Implement the appropriate methods in each class.
B. Create a unit test class for SQL Server 2008.
   Write a code that ignores the enhanced functionality when connected to SQL Server 2005.
   Add the code to the unit test class.
C. Create an interface that contains all unit test definitions.
   Create a unit test class for SQL Server 2005 that implements the interface.
   Create a unit test class for SQL Server 2008 that implements the interface.
   Implement the appropriate methods in each class.

D. Create an abstract class that contains all unit tests.
    Create a derived class for SQL Server 2005 unit tests.
    Create a derived class for SQL Server 2008 unit tests.
    Override methods that are specific to SQL Server 2008 in the SQL Server 2008 test class.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 24
You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.
The application has four modules that query the data that is stored in a database.
You plan to implement an integration testing process for the application.
The testing process must meet the following requirements:
- Test the application data flow early in the process.
- Test the user interface logic early in the process.
- Minimize the requirements for test drivers.
- Minimize the regression tests.
You need to design a strategy to implement the testing process for the application.
What should you do?

A. Generate test stubs.Test all data access modules first.
B. Create mock objects.Test all user interface modules first.
C. Use a bottom-up approach.Test all utility modules first.
D. Use a top-down approach.Test the high-level logic of each module first.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 25
You create a Windows Forms application by using Microsoft Visual Studi .NET 2008 and the .NET Framework
3.5.
The application is installed on several computers on the network.
All unhandled and unexpected exceptions must be logged to a central location to allow reporting for
administrator users.
You need to record the exception details. What should you do?

A. Write the details to the local XML file.
B. Write the events to the Windows event log.
C. Write the details to the Microsoft SQL Server database.
D. Log the events by using Event Tracing for Windows.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference: