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Microsoft

70-523 PRACTICE EXAM

UPG:Transition MCPD.NET Frmwrk 3.5 Web Dev to 4 Web Dev

ProductCatalog		
Column Name	Data Type	Nullable
Id	int	No
Weight	float	No
Price	money	No
Status	bit	No

Question: 1

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server 2008 database. The database includes a database table named ProductCatalog as shown in the exhibit. (Click the Exhibit button.)

You add the following code segment to query the first row of the ProductCatalog table.

(Line numbers are included for reference only.)

```

01 using (var cnx = new SqlConnection(connString))
02 {
03     var command = cnx.CreateCommand();
04     command.CommandType = CommandType.Text;
05     command.CommandText = "SELECT TOP 1 * FROM dbo.ProductCatalog";
06     cnx.Open();
07     var reader = command.ExecuteReader();
08     if (reader.Read()) {
09         var id = reader.GetInt32(0);
10
11         reader.Close();
12     }
13 }

```

You need to read the values for the Weight, Price, and Status columns. Which code segment should you insert at line 10?

Exhibit:

- A. `var weight = reader.GetDouble(1);`
`var price = reader.GetDecimal(2);`
`var status = reader.GetBoolean(3);`
- B. `var weight = reader.GetDecimal(1);`
`var price = reader.GetFloat(2);`
`var status = reader.GetByte(3);`
- C. `var weight = reader.GetDouble(1);`
`var price = reader.GetFloat(2);`
`var status = reader.GetBoolean(3);`
- D. `var weight = reader.GetFloat(1);`
`var price = reader.GetDouble(2);`
`var status = reader.GetByte(3);`

Answer: A

Question: 2

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server 2008 database. The database includes a table named `dbo.Documents` that contains a column with large binary data. You are creating the Data Access Layer (DAL). You add the following code segment to query the `dbo.Documents` table. (Line numbers are included for reference only.)

```
01 public void LoadDocuments(DbConnection cnx)
02 {
03     var cmd = cnx.CreateCommand();
04     cmd.CommandText = "SELECT * FROM dbo.Documents";
05 ...
06     cnx.Open();
07
08     ReadDocument(reader); }
```

You need to ensure that data can be read as a stream. Which code segment should you insert at line 07?

- A. `var reader = cmd.ExecuteReader(CommandBehavior.Default);`
- B. `var reader = cmd.ExecuteReader(CommandBehavior.SchemaOnly);`
- C. `var reader = cmd.ExecuteReader(CommandBehavior.KeyInfo);`
- D. `var reader = cmd.ExecuteReader(CommandBehavior.SequentialAccess);`

Answer: D

Question: 3

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create a Windows Communication Foundation (WCF) Data Services service. You discover that when an application submits a PUT or DELETE request to the Data Services service, it receives an error. You need to ensure that the application can access the service. Which header and request type should you use in the application?

- A. an X-HTTP-Method header as part of a POST request
- B. an X-HTTP-Method header as part of a GET request
- C. an HTTP Content-Type header as part of a POST request
- D. an HTTP Content-Type header as part of a GET request

Answer: A

Question: 4

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server 2008 database. The database includes a table that contains information about all the employees. The database table has a field named `EmployeeType` that identifies whether an employee is a Contractor or a Permanent employee. You declare the `Employee` entity base type. You create a new Association entity named `Contractor` that inherits the `Employee` base type. You need to ensure that all Contractors are bound to the `Contractor` class. What should you do?

- A. Modify the .edmx file to include the following line of code. `<NavigationProperty Name="Type" FromRole="EmployeeType" ToRole="Contractor" />`
- B. Modify the .edmx file to include the following line of code. `<Condition ColumnName="EmployeeType" Value="Contractor" />`

- C. Use the Entity Data Model Designer to set up an association between the Contractor class and EmployeeType.
 D. Use the Entity Data Model Designer to set up a referential constraint between the primary key of the Contractor class and EmployeeType.

Answer: B

Question: 5

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application uses the ADO.NET Entity Framework to model entities. The application allows users to make changes to entities while disconnected from the central data store. You need to ensure that when the user connects to the central data store and retrieves new data, the application meets the following requirements:

Changes made to the local data store in disconnected mode are preserved. Entities that have already been loaded into the local data store, but have not been modified by the user, are updated with the latest data. What should you do?

- A. Call the query's Execute method by using the MergeOptions.AppendOnly option.
 B. Call the query's Execute method by using the MergeOptions.OverwriteChanges option.
 C. Call the Refresh method ofObjectContext by using the RefreshMode.StoreWins option.
 D. Call the Refresh method ofObjectContext by using the RefreshMode.ClientWins method.

Answer: D

Question: 6

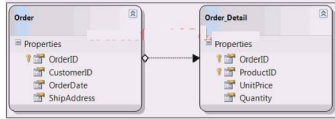
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. You are creating the data layer of the application. You write the following code segment. (Line numbers are included for reference only.)

```
01 public static SqlDataReader GetDataReader(string sql){
02     SqlDataReader dr;
03
04     return dr;
05 }
```

You need to ensure that the following requirements are met:

- The SqlDataReader returned by the GetDataReader method can be used to retrieve rows from the database.
- SQL connections opened within the GetDataReader method will close when the SqlDataReader is closed. Which code segment should you insert at line 03?

- A. `using (SqlConnection cnn=new SqlConnection(strCnn)){
 try {
 SqlCommand cmd =new SqlCommand(sql, cnn);
 cnn.Open();
 dr = cmd.ExecuteReader();
 }
 catch {
 throw;
 }
 }`
- B. `SqlConnection cnn=new SqlConnection(strCnn); SqlCommand cmd =new
 SqlCommand(sql, cnn); cnn.Open();
 try {
 dr = cmd.ExecuteReader();`



```

}
finally {
cnn.Close();
}
C. SqlConnection cnn=new SqlConnection(strCnn); SqlCommand cmd =new
SqlCommand(sql, cnn); cnn.Open();
try {
dr = cmd.ExecuteReader();
cnn.Close();
}
catch {
throw;
}
D. SqlConnection cnn=new SqlConnection(strCnn); SqlCommand cmd =new
SqlCommand(sql, cnn); cnn.Open();
try {
dr = cmd.ExecuteReader(CommandBehavior.CloseConnection);
}
catch {
cnn.Close();
throw;
}

```

Answer: D

Question: 7

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server 2008 database. You create classes by using LINQ to SQL based on the records shown in the exhibit. (Click the Exhibit button.) You need to create a LINQ query to retrieve a list of objects that contains the OrderID and CustomerID properties. You need to retrieve the total price amount of each Order record. What are two possible ways to achieve this goal (Each correct answer presents a complete solution. Choose two.)

- A. from details in dataContext.Order_Details
group details by details.OrderID into g join order in dataContext.Orders on g.Key equals
order.OrderID select new { OrderID = order.OrderID, CustomerID = order.CustomerID,
TotalAmount = g.Sum(od => od. UnitPrice * od.Quantity) }
- B. dataContext.Order_Details.GroupJoin(dataContext.Orders, d => d.OrderID, o =>
o.OrderID, (dts, ord) => new { OrderID = dts.OrderID, CustomerID =


```

dts.Order.CustomerID, TotalAmount = dts.UnitPrice * dts. Quantity } )
C. from order in dataContext.Orders
group order by order.OrderID into g join details in dataContext.Order_Details on g.Key
equals details. OrderID
select new { OrderID = details.OrderID, CustomerID = details.Order.CustomerID,
TotalAmount = details. UnitPrice * details.Quantity }
D. dataContext.Orders.GroupJoin(dataContext.Order_Details, o => o.OrderID, d =>
d.OrderID, (ord, dts) => new { OrderID = ord.OrderID, CustomerID = ord.CustomerID,
TotalAmount = dts.Sum(od => od.UnitPrice * od.Quantity) } )

```

Answer: A. D

Question: 8

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server database. The application has two DataTable objects that reference the Customers and Orders tables in the database. The application contains the following code segment. (Line numbers are included for reference only.)

```

01DataSet customerOrders = new DataSet();
02customerOrders.EnforceConstraints = true;
03ForeignKeyConstraint ordersFK = new ForeignKeyConstraint("ordersFK",
04customerOrders.Tables["Customers"].Columns["CustomerID"],
05customerOrders.Tables["Orders"].Columns["CustomerID"]);
06

```

```

07customerOrders.Tables["Orders"].Constraints.Add(ordersFK);

```

You need to ensure that an exception is thrown when you attempt to delete Customer records that have related Order records. Which code segment should you insert at line 06?

- A. ordersFK.DeleteRule = Rule.SetDefault;
- B. ordersFK.DeleteRule = Rule.None;
- C. ordersFK.DeleteRule = Rule.SetNull;
- D. ordersFK.DeleteRule = Rule.Cascade;

Answer: B

Question: 9

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server database. You write the following code segment that executes two commands against the database within a transaction. (Line numbers are included for reference only.)

```

01using (SqlConnection connection = new SqlConnection(cnnStr)) {
02connection.Open();
03SqlTransaction sqlTran = connection.BeginTransaction();
04SqlCommand command = connection.CreateCommand();
05command.Transaction = sqlTran;
06try {
07command.CommandText = "INSERT INTO Production.ScrapReason(Name)
VALUES('Wrong size')";
08command.ExecuteNonQuery();
09command.CommandText = "INSERT INTO Production.ScrapReason(Name)

```

```
VALUES('Wrong color');
10command.ExecuteNonQuery();
11
12}
```

You need to log error information if the transaction fails to commit or roll back. Which code segment should you insert at line 11?

A. sqlTran.Commit();
 }
 catch (Exception ex) { sqlTran.Rollback(); Trace.WriteLine(ex.Message); }
 B. sqlTran.Commit();
 }
 catch (Exception ex) { Trace.WriteLine(ex.Message); try {
 sqlTran.Rollback();
 }
 catch (Exception exRollback) { Trace.WriteLine(exRollback.Message);
 } }
 C. catch (Exception ex){ Trace.WriteLine(ex.Message); try{
 sqlTran.Rollback();
 } catch (Exception exRollback){ Trace.WriteLine(exRollback.Message);
 }
 finally { sqltran.commit();}
 D. catch (Exception ex) { sqlTran.Rollback(); Trace.WriteLine(ex.Message);
 }
 finally {
 try {
 sqltran.commit();
 } catch (Exception exRollback) { Trace.WriteLine(excommit.Message); }}

Answer: B

Question: 10

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application contains the following code segment. (Line numbers are included for reference only.)

```
01 class DataAccessLayer
02 {
03     private static string connString;
04
05     ...
06     public static DataTable GetDataTable(string command){
07
08     ...
09 }
10 }
```

You need to define the connection life cycle of the DataAccessLayer class. You also need to ensure that the application uses the minimum number of connections to the database. What should you do?

A. Insert the following code segment at line 04.
 private static SqlConnection conn = new SqlConnection(connString);
 public static void Open(){

```

conn.Open();
}
public static void Close(){
conn.Close();
}

```

B. Insert the following code segment at line 04.

```

private SqlConnection conn = new SqlConnection(connString);
public void Open(){
conn.Open();
}
public void Close(){
conn.Close();
}

```

C. Replace line 01 with the following code segment. class DataAccessLayer : IDisposable

Insert the following code segment to line 04.

```

private SqlConnection conn = new SqlConnection(connString);
public void Open(){
conn.Open();
}
public void Dispose(){
conn.Close();
}

```

D. Insert the following code segment at line 07.

```

using (SqlConnection conn = new SqlConnection(connString)){
conn.Open();
}

```

Answer: D

Question: 11

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. You use Microsoft ADO.NET Entity Data Model (EDM) to model entities. You create an entity named Person with a schema defined by the following XML fragment.

```

<EntityType Name="CPerson">
  <Key>
    <PropertyRef Name="PersonId" />
  </Key>
  <Property Name="PersonId" Type="Int32" Nullable="false" />
  <Property Name="CompanyName" Type="String" />
  <Property Name="ContactName" Type="String" />
  <Property Name="ContactTitle" Type="String" />
  <Property Name="Address" Type="String" />
</EntityType>

```

You need to ensure that entities within the application are able to add properties related to the city, region, and country of Person's address. What should you do?

A. "Create a new complex type named CAddress that contains the properties for city, region, and country.

"Change the Type of the Address property in CPerson to "Self.CAddress".

- B. "Create a SubEntity named Address. "Map the SubEntity to a stored procedure that retrieves city, region, and country.
- C. "Create a new entity named Address. "Add a person ID property to filter the results to display only the City, Region, and Country properties for a specific Person entity.
- D. "Create a view named Name that returns city, region, and country along with person IDs. "Add a WHERE clause to filter the results to display only the City, Region and Country properties for a specific Person entity.

Answer: A

Question: 12

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create a Windows Communication Foundation (WCF) Data Services service. The service connects to a Microsoft SQL Server 2008 database. The service is hosted by an Internet Information Services (IIS) 6.0 server. You need to ensure that applications authenticate against user information stored in the database before the application is allowed to use the service. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Configure IIS to require basic authentication.
- B. Configure IIS to allow anonymous access.
- C. Configure IIS to require Windows authentication.
- D. Enable the WCF Authentication Service.
- E. Modify the Data Services service to use a Microsoft ASP.NET membership provider.

Answer: B, E

Question: 13

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application uses the ADO.NET Entity Framework to manage customer and related order records. You add a new order for an existing customer. You need to associate the Order entity with the Customer entity. What should you do?

- A. Set the Value property of the EntityReference of the Order entity.
- B. Call the Add method on the EntityCollection of the Order entity.
- C. Use the AddObject method of theObjectContext to add both Order and Customer entities.
- D. Use the Attach method of theObjectContext to add both Order and Customer entities.

Answer: A

Question: 14

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create a Windows Communication Foundation (WCF) Data Services service. You deploy the service to the following URL: <http://contoso.com/Northwind.svc>. You want to query the WCF Data Services service to retrieve a list of customer objects. You need to ensure that the query meets the following requirements: "Only customers that match the following filter criteria are retrieved: City="Seattle" AND Level > 200. "Data is sorted in ascending order by the ContactName and Address properties. Which URL should you use for the query?

- A. <http://contoso.com/Northwind.svc/Customers?City=Seattle & Level gt 200 &>

\$orderby=ContactName, Address

B. [http://contoso.com/Northwind.svc/Customers?City=Seattle & Level gt 200 & \\$orderby=ContactName and Address](http://contoso.com/Northwind.svc/Customers?City=Seattle & Level gt 200 & $orderby=ContactName and Address)

\$orderby=ContactName and Address

C. [http://contoso.com/Northwind.svc/Customers?\\$filter=City eq 'Seattle' and Level gt 200 & \\$orderby=ContactName,Address](http://contoso.com/Northwind.svc/Customers?$filter=City eq 'Seattle' and Level gt 200 & $orderby=ContactName,Address)

D. [http://contoso.com/Northwind.svc/Customers?\\$filter=City eq 'Seattle' and Level gt 200 & \\$orderby=ContactName and Address](http://contoso.com/Northwind.svc/Customers?$filter=City eq 'Seattle' and Level gt 200 & $orderby=ContactName and Address)

Answer: C

Question: 15

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server database. The application stores encrypted credit card numbers in the database. You need to ensure that credit card numbers can be extracted from the database. Which cryptography providers should you use?

A. `DSACryptoServiceProvider`

B. `AESCryptoServiceProvider`

C. `MD5CryptoServiceProvider`

D. `SHA1CryptoServiceProvider`

Answer: B

Question: 16

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. You use the ADO.NET Entity Data Model (EDM) to define a Customer entity. You need to add a new Customer to the data store without setting all the customer's properties. What should you do?

A. Call the `Create` method of the Customer object.

B. Call the `CreateObject` method of the Customer object.

C. Override the `Create` method for the Customer object.

D. Override the `SaveChanges` method for the Customer object.

Answer: B

Question: 17

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server database. The application uses the following object query to load a product from the database. (Linenumbers are included for reference only.)

```
01using (AdventureWorksEntities advWorksContext = new AdventureWorksEntities())
```

```
02{
```

```
03    ObjectQuery<Product> productQuery =
```

```
    advWorksContext.Product.Where("it.ProductID = 900");
```

```
04
```

```
05}
```

You need to log the command that the query executes against the data source. Which code segment should you insert

at line 04?

- A. `Trace.WriteLine(productQuery.ToString());`
- B. `Trace.WriteLine(productQuery.ToTraceString());`
- C. `Trace.WriteLine(productQuery.CommandText);`
- D. `Trace.WriteLine(((IQueryable)productQuery).Expression);`

Answer: B

Question: 18

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server 2008 database. The application uses DataContexts to query the database. You create a function that meets the following requirements:

"Updates the Customer table on the database when a customer is marked as deleted. "Updates the related entries in other tables (CustomerAddress, CustomerContacts) by marking them as deleted. "Prevents consumer code from setting the Deleted column's value directly. You need to ensure that the function verifies that customers have no outstanding orders before they are marked as deleted. You also need to ensure that existing applications can use the update function without requiring changes in the code. What should you do?

- A. Override the Delete operation of the DataContext object.
- B. Override the Update operation of the DataContext object.
- C. Modify the SELECT SQL statement provided to the DataContext object to use an INNER JOIN between the Customer and Orders tables.
- D. Add new entities to the DataContext object for the Customers and Orders tables.

Answer: A

Question: 19

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server database. You create the classes shown in the following exhibit.

You add the following code segment to the application. (Line numbers are included for reference only.)

```
01 public void QueryPlayers(List <League> leagues) {
02
03 }
```

You create a LINQ query to retrieve a collection of Player objects. You need to ensure that the collection includes all the players from each team and every league. Which code segment should you insert at line 02? **Exhibit Missing**

- A. `var query = leagues.Select(l => l.Teams.Select(t => t.Players));`
- B. `var query = leagues.Select(l => l.Teams.SelectMany(t => t.Players));`
- C. `var query = leagues.SelectMany(l => l.Teams.SelectMany(t => t.Players));`
- D. `var query = leagues.SelectMany(l => l.Teams.Select(t => t.Players));`

Answer: C

Question: 20

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server database. The application uses a DataTable named OrderDetailTable that has the following columns:

"ID" "OrderID" "ProductID" "Quantity" "LineTotal" Some records contain a null value in the LineTotal field and 0 in the Quantity field. You write the following code segment. (Line numbers are included for reference only.)

```
01 DataColumn column = new DataColumn("UnitPrice", typeof(double));
```

```
02
```

```
03 OrderDetailTable.Columns.Add(column);
```

You need to add a calculated DataColumn named UnitPrice to the OrderDetailTable object. You also need to ensure that UnitPrice is set to 0 when it cannot be calculated. Which code segment should you insert at line 02?

- A. column.Expression = "LineTotal/Quantity";
- B. column.Expression = "LineTotal/ISNULL(Quantity, 1)";
- C. column.Expression = "if(Quantity > 0, LineTotal/Quantity, 0)";
- D. column.Expression = "iif(Quantity > 0, LineTotal/Quantity, 0)";

Answer: D

Question: 21

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. You use the ADO.NET Entity Framework to model your entities. You use Plain Old CLR Objects (POCO) entities along with snapshot-based change tracking. The code accesses the POCO entities directly. You need to ensure that the state manager synchronizes when changes are made to the object graph. WhichObjectContext method should you call?

- A. Refresh
- B. SaveChanges
- C. DetectChanges
- D. ApplyPropertyChanges

Answer: C

Question: 22

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application uses the ADO.NET Entity Framework to model entities. You create an entity as shown in the following code fragment.

```
<EntityType Name="ProductCategory">
```

```
<Key>
```

```
<PropertyRef Name="ProductCategoryID" />
```

```
</Key>
```

```
<Property Name="ProductCategoryID" Type="int" Nullable="false"
```

```
StoreGeneratedPattern="Identity" />
```

```
<Property Name="ParentProductCategoryID" Type="int" />
```

```
<Property Name="Name" Type="nvarchar" Nullable="false" MaxLength="50" />
```

```
...
```

```
</EntityType>
```

You need to provide two entity-tracking fields: "rowguid" that is automatically generated when the entity is created "ModifiedDate" that is automatically set whenever the entity is updated. Which code fragment should you add to the .edmx file?

A. <Property Name="rowguid" Type="uniqueidentifier" Nullable="false" StoreGeneratedPattern="Computed"/>
 <Property Name="ModifiedDate" Type="timestamp" Nullable="false" StoreGeneratedPattern="Computed"/>
 >
 B. <Property Name="rowguid" Type="uniqueidentifier" Nullable="false" StoreGeneratedPattern="Identity"/>
 <Property Name="ModifiedDate" Type="timestamp" Nullable="false" StoreGeneratedPattern="Identity"/>
 C. <Property Name="rowguid" Type="uniqueidentifier" Nullable="false" StoreGeneratedPattern="Identity"/>
 <Property Name="ModifiedDate" Type="timestamp" Nullable="false" StoreGeneratedPattern="Computed"/>
 >
 D. <Property Name="rowguid" Type="uniqueidentifier" Nullable="false" StoreGeneratedPattern="Computed"/>
 <Property Name="ModifiedDate" Type="timestamp" Nullable="false" StoreGeneratedPattern="Identity"/>

Answer: C

Question: 23

You use Microsoft Visual Studio 2010, Microsoft Sync Framework, and Microsoft .NETFramework 4 to create an application. You have a ServerSyncProvider connected to aMicrosoft SQL Server database. The database is hosted on a Web server. Users will use the Internet to access the Customer database through the ServerSyncProvider. You write the following code segment. (Line numbers are included for reference only.)

```
01 SyncTable customerSyncTable = new SyncTable("Customer");
02 customerSyncTable.CreationOption = TableCreationOption.
  UploadExistingOrCreateNewTable;
03
```

```
04 customerSyncTable.SyncGroup = customerSyncGroup;
05 this.Configuration.SyncTables.Add(customerSyncTable);
```

You need to ensure that the application meets the following requirements: "Users can modify data locally and receive changes from the server. "Only changed rows are transferred during synchronization. Which code segment should you insert at line 03?

- A. customerSyncTable.SyncDirection = SyncDirection.DownloadOnly;
- B. customerSyncTable.SyncDirection = SyncDirection.Snapshot;
- C. customerSyncTable.SyncDirection = SyncDirection.Bidirectional;
- D. customerSyncTable.SyncDirection = SyncDirection.UploadOnly;

Answer: C

Question: 24

You use Microsoft Visual Studio 2010 and Microsoft ADO.NET Framework 4 to create an application. The application connects to a Microsoft SQL Server 2008 database. You use the ADO.NET LINQ to SQL model to retrieve data from the database. You use stored procedures to return multiple result sets. You need to ensure that the result sets are returned as strongly typed values. What should you do?

- A. Apply the FunctionAttribute and ResultTypeAttribute to the stored procedurefunction. Use the GetResult <TElement> method to obtain an enumerator of the correcttype.
- B. Apply the FunctionAttribute and ParameterAttribute to the stored procedure functionand directly access the strongly typed object from the results collection.
- C. Apply the ResultTypeAttribute to the stored procedure function and directly accessthe strongly typed object from the results collection.
- D. Apply the ParameterAttribute to the stored procedure function. Use the GetResult <TElement> method to obtain an enumerator of the correct type.

Answer: A

Question: 25

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. You use the ADO.NET Entity Framework to model entities. You write the following code segment. (Line numbers are included for reference only.)

```

01AdventureWorksEntities context = New AdventureWorksEntities
(http://localhost:1234/AdventureWorks.svc);
02
03var q = from c in context.Customers
04where c.City == "London"
05orderby c.CompanyName
06select c;
```

You need to ensure that the application meets the following requirements: "Compares the current values of unmodified properties with values returned from the data source." Marks the property as modified when the properties are not the same. Which code segment should you insert at line 02?

- A. context.MergeOption = MergeOption.AppendOnly;
- B. context.MergeOption = MergeOption.PreserveChanges;
- C. context.MergeOption = MergeOption.OverwriteChanges;
- D. context.MergeOption = MergeOption.NoTracking;

Answer: B

Question: 26

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create a Windows Communication Foundation (WCF) Data Services service. The service connects to a Microsoft SQL Server 2008 database. The service is hosted by an Internet Information Services (IIS) 6.0 Web server. The application works correctly in the development environment. However, when you connect to the service on the production server, attempting to update or delete an entity results in an error. You need to ensure that you can update and delete entities on the production server. What should you do?

- A. Add the following line of code to the InitializeService method of the service.
config.SetEntitySetAccessRule ("*", EntitySetRights.WriteDelete | EntitySetRights.WriteInsert);
- B. Add the following line of code to the InitializeService method of the service.
config.SetEntitySetAccessRule ("*", EntitySetRights.WriteDelete | EntitySetRights.WriteMerge);
- C. Configure IIS to allow the PUT and DELETE verbs for the .svc ApplicationExtension.



D. Configure IIS to allow the POST and DELETE verbs for the .svc ApplicationExtension.

Answer: C

Question: 27

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. You create stored procedures by using the following signatures:

"CREATE procedure [dbo].[Product_Insert](@name varchar(50),@price float)

"CREATE procedure [dbo].[Product_Update](@id int, @name varchar(50), @price float)

"CREATE procedure [dbo].[Product_Delete](@id int)

"CREATE procedure [dbo].[Order_Insert](@productId int, @quantity int)

"CREATE procedure [dbo].[Order_Update](@id int, @quantity int,@originalTimestamp timestamp)

"CREATE procedure [dbo].[Order_Delete](@id int)

You create a Microsoft ADO.NET Entity Data Model (EDM) by using the Product and Order entities as shown in the exhibit. You need to map the Product and Order entities to the stored procedures. Which two procedures should you add to the @productId parameter? (Each correct answer presents part of the solution. Choose two.)

- A. Product_Delete
- B. Product_Update
- C. Order_Delete
- D. Order_Update

Answer: C, D

Question: 28

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application uses the ADO.NET Entity Framework to model entities. You need to create a database from your model. What should you do?

- A. Run the edmgen.exe tool in FullGeneration mode.
- B. Run the edmgen.exe tool in FromSSDLGeneration mode.
- C. Use the Update Model Wizard in Visual Studio.
- D. Use the Generate Database Wizard in Visual Studio. Run the resulting script against a Microsoft SQL Server database.

Answer: D

Question: 29

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server database. You use Entity SQL of the ADO.NET Entity Framework to retrieve data from the database. You need to define a custom function in the conceptual model. You also need to ensure that the function calculates a value based on properties of the object. Which two XML element types should you use? (Each correct answer presents part of the solution. Choose two.)

- A. Function
- B. FunctionImport
- C. Dependent
- D. Association
- E. DefiningExpression

Answer: A, E

Question: 30

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to several SQL Server databases. You create a function that modifies customer records that are stored in multiple databases. All updates for a given record are performed in a single transaction. You need to ensure that all transactions can be recovered. What should you do?

- A. Call the EnlistVolatile method of the Transaction class.
- B. Call the EnlistDurable method of the Transaction class.
- C. Call the Reenlist method of the TransactionManager class.
- D. Call the RecoveryComplete method of the TransactionManager class.

Answer: B

Question: 31

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application updates several Microsoft SQL Server databases within a single transaction. You need to ensure that after a resource failure, you can manage unresolved transactions. What should you do?

- A. Call the EnlistVolatile method of the Transaction class.
- B. Call the EnlistDurable method of the Transaction class.
- C. Call the Reenlist method of the TransactionManager class.
- D. Call the RecoveryComplete method of the TransactionManager class.

Answer: C

Question: 32

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application uses the ADO.NET Entity Framework to model entities. The application allows users to make changes while disconnected from the data store. Changes are submitted to the data store by using the SubmitChanges method of the DataContext object. You receive an exception when you call the SubmitChanges method to submit entities that a user has changed in offline mode. You need to ensure that entities changed in offline mode can be successfully updated in the data

store. What should you do?

- A. Set the ObjectTrackingEnabled property of DataContext to true.
- B. Set the DeferredLoadingEnabled property of DataContext to true.
- C. Call the SaveChanges method of DataContext with a value of false.
- D. Call the SubmitChanges method of DataContext with a value of System.Data.Linq.ConflictMode.ContinueOnConflict.

Answer: A

Question: 33

You are designing an ASP.NET Web application that displays daily sales information. The sales information is stored in a large Microsoft SQL Server database. The database information is updated each night. During the day, people use the Web application to display a set of standard sales reports based on the latest database information. The SQL queries that are required to retrieve the database information can take from 20 to 30 seconds to execute. You need to design the application to ensure that pages usually load in no more than 5 seconds. Which two approaches could you recommend? (Each correct answer presents a complete solution. Choose two.)

- A. Use SQL Server replication.
- B. Use AJAX to retrieve the database information.
- C. Use a control that retrieves and displays the database information.
- D. Use a service that proxies the database queries and caches the results.

Answer: B, D

Question: 34

You are implementing an ASP.NET application that includes a page named TestPage.aspx. TestPage.aspx uses a master page named TestMaster.master. You add the following code to the TestPage.aspx code-behind file to read a TestMaster.master public property named CityName.

```
protected void Page_Load(object sender, EventArgs e)
{
    string s = Master.CityName;
}
```

You need to ensure that TestPage.aspx can access the CityName property. What should you do?

- A. Add the following directive to TestPage.aspx.
<%@ MasterType VirtualPath="~/TestMaster.master" %>
- B. Add the following directive to TestPage.aspx.
<%@ PreviousPageType VirtualPath="~/TestMaster.master" %>
- C. Set the Strict attribute in the @ Master directive of the TestMaster.master page to true.
- D. Set the Explicit attribute in the @ Master directive of the TestMaster.master page to true.

Answer: A

Question: 35

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server 2008 database. The application uses DataContexts to query the database. You create a function that meets the following requirements:

- Updates the Customer table on the database when a customer is marked as deleted.
- Updates the related entries in

other tables (CustomerAddress, CustomerContacts) by marking them as deleted. Prevents consumer code from setting the Deleted column's value directly. You need to ensure that the function verifies that customers have no outstanding orders before they are marked as deleted. You also need to ensure that existing applications can use the updated function without requiring changes in the code. What should you do?

- A. Override the Delete operation of the DataContext object.
- B. Override the Update operation of the DataContext object.
- C. Modify the SELECT SQL statement provided to the DataContext object to use an INNER JOIN between the Customer and Orders tables.
- D. Add new entities to the DataContext object for the Customers and Orders tables.

Answer: A

Question: 36

You need to design a solution for programmatically adding reusable user-interface code to views and allowing the user-interface code to be rendered from the server side. Which approach should you recommend?

- A. Create a jQuery library plug-in.
- B. Create an HtmlHelper extension method.
- C. Create a controller that returns an ActionResult.
- D. Create a WebForm server control that stores values in ViewState.

Answer: B

Question: 37

You have an ASP.NET Web Forms application for processing orders. Many users of the application submit their order forms multiple times due to incorrectly formatted credit card information. You need to plan for validation of the length and format of data in the credit card field on the client side prior to processing each transaction. Which approach should you recommend?

- A. Use a CustomValidator control in the Page_Load method.
- B. Use a CustomValidator control in the OnServerValidate method.
- C. Use a RequiredFieldValidator control and a CompareValidator control.
- D. Use a RequiredFieldValidator control and a RegularExpressionValidator control.

Answer: D

Question: 38

You are designing an ASP.NET Web application. You have the following requirements:

Users must be allowed to save their work in progress on one computer and to continue the work on another computer. Data that is submitted for processing must be valid, and invalid data must be rejected. Primary key constraints within the database must be enabled at all times. The application must store only data that is entered by the user. You need to design data validation to support the requirements. Which two approaches should you recommend? (Each correct answer presents part of the solution. Choose two.)

- A. Store temporary form data as XML in a database table.

- B. Use validators to verify the data when the user submits a form.
- C. Add an `isTemporary` column to each database table, and set all columns to allow null values.
- D. Provide default values for the database columns, and submit the form with user entered values when the user saves the form.

Answer: A, B

Question: 39

You are designing an ASP.NET Web application for online image editing. Users can upload images to the Web application and edit those images by using utilities provided by the application. Some utilities are processor intensive and should be offloaded to a Graphics Processing Unit (GPU). Other utilities require the use of proprietary algorithms that must be performed on the server. You need to design a solution for minimizing bandwidth usage and Web server response times during image processing, while providing a responsive application. Which two approaches should you recommend?

(Each correct answer presents part of the solution. Choose two.)

- A. Perform server-side image processing on the Web server.
- B. Perform server-side image processing on a dedicated server.
- C. Perform client-side image processing by using ASP.NET AJAX.
- D. Perform client-side image processing by using Microsoft Silverlight.

Answer: B, D

Question: 40

You are implementing an ASP.NET Web site. The site contains the following class.

```
public class Address
{
    public int AddressType; public string Line1; public string Line2; public string City;
    public string ZipPostalCode;
}
```

The Web site interacts with an external data service that requires Address instances to be given in the following XML format.

```
<Address AddressType="2">
  <Line1>250 Race Court</Line1>
  <City>Chicago</City>
  <PostalCode>60603</PostalCode>
</Address>
```

You need to ensure that Address instances that are serialized by the `XmlSerializer` class meet the XML format requirements of the external data service. Which two actions should you perform (Each correct answer presents part of the solution. Choose two.)

- A. Add the following attribute to the `AddressType` field.
[XmlAttribute]
- B. Add the following attribute to the `Line2` field.
[XmlElement(IsNullable=true)]
- C. Add the following attribute to the `ZipPostalCode` field.
[XmlAttribute("ZipCode")]
- D. Add the following attribute to the `ZipPostalCode` field.

[XmlElement("ZipCode")]

Answer: A, D

Question: 41

You create an ASP.NET MVC 2 Web application that contains the following controller class. public class ProductController : Controller

```
{
static List<Product> products = new List<Product>();
public ActionResult Index()
{
return View();
}
}
```

In the Views folder of your application, you add a view page named Index.aspx that includes the following @ Page directive.

```
<%@ Page Inherits="System.Web.Mvc.ViewPage" %>
```

You test the application with a browser. You receive the following error message when the Index method is invoked: "The view 'Index' or its master was not found."

You need to resolve the error so that the new view is displayed when the Index method is invoked. What should you do?

- A. Change the name of the Index.aspx file to Product.aspx.
- B. Create a folder named Product inside the Views folder. Move Index.aspx to the Product folder.
- C. Replace the @ Page directive in Index.aspx with the following value.
<%@ Page Inherits="System.Web.Mvc.ViewPage<Product>" %>
- D. Modify the Index method by changing its signature to the following:
public ActionResult Index(Product p)

Answer: B

Question: 42

You deploy an ASP.NET application to an IIS server. You need to log health-monitoring events with severity level of error to the Windows application event log. What should you do?

- A. Run the aspnet_regiis.exe command.
- B. Set the Treat warnings as errors option to All in the project properties and recompile.
- C. Add the following rule to the <healthMonitoring/> section of the web.config file.
<rules>
<add name="Failures" eventName="Failure Audits" provider="EventLogProvider" />
</rules>
- D. Add the following rule to the <healthMonitoring/> section of the web.config file.
<rules>
<add name="Errors" eventName="All Errors" provider="EventLogProvider" />
</rules>

Answer: D

Question: 43

You create a Web page that contains drop-down menus that are defined by using div tags in the following code.

```
<div class="dropdown-menu">
<div class="menu-title">Menu One</div>
<div class="menu-items" style="display:none;">
<div><a href="#">Item One</a></div>
<div><a href="#">Item Two</a></div>
</div>
</div>
<div class="dropdown-menu">
<div class="menu-title">Menu Two</div>
<div class="menu-items" style="display:none;">
<div><a href="#">Item Three</a></div>
<div><a href="#">Item Four</a></div>
</div>
</div>
```

You need to write a JavaScript function that will enable the drop-down menus to activate when the user positions the mouse over the menu title. Which code segment should you use?

- A. `$(".dropdown-menu").hover(
function () {
$(".menu-items").slideDown(100);
},
function () {
$(".menu-items").slideUp(100);
}
);`
- B. `$(".dropdown-menu").hover(
function () {
$(".menu-items", this).slideDown(100);
},
function () {
$(".menu-items", this).slideUp(100);
}
);`
- C. `$(".dropdown-menu").hover(
function () {
$(this).slideDown(100);
},
function () {
$(this).slideUp(100);
}
);`
- D. `$(".dropdown-menu").hover(
function () {
$("this", ".menu-title",).slideDown(100);
},
function () {
$("this.menu-title",).slideUp(100);`

```
}
);
```

Answer: B

Question: 44

You create an ASP.NET page that contains the following tag.

```
<h1 id="hdr1" runat="server">Page Name</h1>
```

You need to write code that will change the contents of the tag dynamically when the page is loaded. What are two possible ways to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. `this.hdr1.InnerHtml = "Text";`
- B. `(hdr1.Parent as HtmlGenericControl).InnerText = "Text";`
- C. `HtmlGenericControl h1 = this.FindControl("hdr1") as HtmlGenericControl; h1.InnerText = "Text";`
- D. `HtmlGenericControl h1 = Parent.FindControl("hdr1") as HtmlGenericControl; h1.InnerText = "Text";`

Answer: A, C

Question: 45

You are designing an ASP.NET Web Forms application that uses a database containing user names and hashed passwords for authentication. The Web application includes a login form in which users type their user names and passwords. You need to design a strategy to ensure that the user's login credentials cannot be stolen through a man-in-the-middle attack. Which approach should you recommend?

- A. Install a certificate on the Web server, and force the login form to use SSL.
- B. Write an onSubmit JavaScript handler that hashes the password before the password is submitted to the server.
- C. Write an OnClick method for the Submit button that hashes the password before the password is compared with the password value that is stored in the database.
- D. Write an onSubmit JavaScript handler that URL-encodes the password before the password is passed to the server.

Answer: A

Question: 46

You are designing a user input form that is part of an ASP.NET Web Forms application. You need to ensure that users cannot attack the Web server by submitting invalid data. Which approach should you recommend?

- A. Install a certificate on the Web server, and force all Web traffic to use SSL.
- B. Write an onSubmit JavaScript handler that validates all form input.
- C. Write an onSubmit JavaScript handler that URL-encodes all data that is passed to the server.
- D. Write an OnClick method for the Submit button that rejects form submissions that contain invalid data.

Answer: D

Question: 47

You are implementing an ASP.NET application that uses data-bound GridView controls in multiple pages. You add JavaScript code to periodically update specific types of data items in these GridView controls. You need to ensure that the JavaScript code can locate the HTML elements created for each row in these GridView controls, without needing to be changed if the controls are moved from one page to another. What should you do?

- A. Replace the GridView control with a ListView control.
- B. Set the ClientIDMode attribute to Predictable in the web.config file.
- C. Set the ClientIDRowSuffix attribute of each unique GridView control to a different value.
- D. Set the @ OutputCache directive's VaryByControl attribute to the ID of the GridView control.

Answer: B

Question: 48

You are designing an ASP.NET 4 Web application that will integrate third-party components. You need to minimize the security risks of using these components. Which approach should you recommend?

- A. Apply role-based security with declarative checks.
- B. Store the components in the global assembly cache.
- C. Use the third-party components on a separate server.
- D. Use an appropriately permitted AppDomain for each component.

Answer: D

Question: 49

You are implementing an ASP.NET AJAX page that contains two div elements. You need to ensure that the content of each div element can be refreshed individually, without requiring a page refresh. What should you do?

- A. Add two forms to the page. Add a script manager and an update panel to each form. Add a content template to each update panel, and move each div element into a content template.
- B. Add two forms to the page. Add a script manager and an update panel to each form. Add a content template to each update panel, and move each div element into a content template.
- C. Add a form and two update panels to the page. Add a script manager to the form. Add a content template to each update panel, and move a div element into each content template.
- D. Add a form and two update panels to the page. Add two script managers to the form, one for each update panel. Add a content template to each update panel, and move each div element into a content template.

Answer: C

Question: 50

You are dynamically adding controls to an ASP.NET page in the Page_Load event handler. The page will have text boxes that correspond to the columns in a database table. Each text box will be preceded by a label that displays the name of the corresponding column. You need to create the form so that when the user clicks the label, the corresponding text box is selected for input. What should you do?

A. For each column, output the following HTML, where COL is replaced by the name of the column.

```
<label>COL</label>
```

```
<input name="COL" type="text" id="COL" />
```

B. For each column, output the following HTML, where COL is replaced by the name of the column.

```
<label AssociatedControlID="COL">COL</label>
```

```
<input name="COL" type="text" id="COL" />
```

C. For each column, create an asp:Label control and a corresponding asp:TextBox that have the same ID.

D. For each column, create an asp:Label control and set the AssociatedControlID to the ID of the corresponding asp:Textbox control.

Answer: D

Question: 51

You are implementing an ASP.NET Web page. You need to add a text box that allows only values between 1 and 10, inclusive, to be submitted. Which two code segments should you use? (Each correct answer presents part of the solution. Choose two.)

A. `<script type="text/javascript"> function validate_value(obj, args) { return (args.Value >= 1 && args.Value <= 10); }`

```
</script>
```

B. `<script type="text/javascript"> function validate_value(obj, args) { args.IsValid = (args.Value >= 1 && args.Value <= 10); }`

```
</script>
```

C. `<asp:TextBox ID="txt1" runat="server" />`

```
<asp:CustomValidator ID="val1" runat="server" ControlToValidate="txt1"
ClientValidationFunction="validate_value" ErrorMessage="Value invalid" />
```

D. `<asp:TextBox ID="txt1" runat="server"
onChange="validate_value(this, args)" />`

Answer: B, C

Question: 52

You need to recommend appropriate technologies for designing Web forms for entry and retrieval of news items. Which technologies should you recommend? (Each correct answer presents a complete solution. Choose two.)

A. ASMX and SOAP

B. WCF Data Services and jQuery

C. ASP.NET MVC 2 and Microsoft AJAX

D. Entity Framework and Microsoft Silverlight

Answer: B, C

Question: 53

You are implementing an ASP.NET MVC 2 Web application. A controller contains the following code.

```
public ActionResult Edit(int id)
{
    return View(SelectUserToEdit(id));
}
public ActionResult Edit(Person person)
{
    UpdateUser(person);
    return RedirectToAction("Index");
}
```

The first Edit action displays the user whose details are to be edited, and the second Edit action is called when the Save button on the editing form is clicked to update the user details. An exception is thrown at run time stating that the request for action Edit is ambiguous. You need to correct this error and ensure that the controller functions as expected. What are two possible ways to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. Add the following attribute to the first Edit action. [AcceptVerbs(HttpVerbs.Head)]
- B. Add the following attribute to the first Edit action. [HttpGet]
- C. Add the following attribute to the second Edit action. [HttpPost]
- D. Add the following attribute to the second Edit action. [HttpPut]

Answer: B, C

Question: 54

You are creating an ASP.NET Web site. The site contains pages that are available to anonymous users. The site also contains a page named Premium.aspx that provides premium content to only members of a group named Subscribers. You need to modify the web.config file to ensure that Premium.aspx can be accessed by only members of the Subscribers group.

Which configuration should you use?

- A. <location path="Premium.aspx">
 <system.web>
 <authorization>
 <allow users="Subscribers"/>
 <deny users="*/>
 </authorization>
 </system.web>
 </location>
- B. <location path="Premium.aspx">
 <system.web>
 <authorization>
 <allow roles="Subscribers"/>
 <deny users="*/>
 </authorization>
 </system.web>
 </location>
- C. <location path="Premium.aspx">
 <system.web>
 <authorization>
 <allow roles="Subscribers"/>
 <deny users="*/>

```

</authorization>
</system.web>
</location>
D. <location path="Premium.aspx">
<system.web>
<authorization>
<deny users="*" />
<allow roles="Subscribers" />
</authorization>
</system.web>
</location>

```

Answer: B

Question: 55

You are designing an ASP.NET Web application by using Microsoft Visual Studio 2010. The Web application uses dynamic HTML (DHTML). You need to ensure that the application functions properly on multiple browser platforms without requiring the installation of a client-side component. Which two approaches could you recommend? (Each correct answer presents a complete solution. Choose two.)

- A. Use jQuery.
- B. Use Microsoft Silverlight.
- C. Use the ASP.NET Ajax Library.
- D. Use Microsoft Visual Basic Scripting Edition (VBScript).

Answer: A, C

Question: 56

You are implementing an ASP. NET MVC 2 Web application. You add a controller named CompanyController. You need to modify the application to handle the URL path /company/info. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Add the following method to the CompanyController class.


```
public ActionResult
INFO ()
{
return View();
}
```
- B. Add the following method to the CompanyController class.


```
public ActionResult
Company_Info()
{
return View();
}
```
- C. Right-click the Views folder, and select View from the Add submenu to create the view for the action.
- D. Right-click inside the action method in the CompanyController class, and select AddView to create a view for the action.

Answer: A, D

Question: 57

You are implementing an ASP.NET application. The application includes a Person class with property Age. You add a page in which you get a list of Person objects and display the objects in a GridView control. You need to add code so that the GridView row is highlighted in red if the age of the person is less than 18. Which GridView event should you handle?

- A. RowDataBound
- B. RowCommand
- C. RowUpdated
- D. RowEditing

Answer: A

Question: 58

You are implementing an ASP.NET AJAX page. You add two UpdatePanel controls named pnlA and pnlB. pnlA contains an UpdatePanel control named pnlInner in its content template. You have the following requirements. Update panels pnlA and pnlB must refresh their content only when controls that they contain cause a postback. Update panel pnlInner must refresh its content when controls in either pnlA or pnlB or pnlInner cause a postback. You need to configure the panels to meet the requirements. What should you do?

- A. Set the UpdateMode of pnlA and pnlB to Conditional. Set the UpdateMode of pnlInner to Always.
- B. Set the UpdateMode of pnlA and pnlB to Conditional. Set the UpdateMode of pnlInner to Conditional, and add AsyncPostBackTrigger elements to its Triggers element for every control in pnlA.
- C. Set the UpdateMode of pnlA and pnlB to Always. Set the UpdateMode of pnlInner to Conditional.
- D. Set the UpdateMode of pnlA and pnlB to Always. Set the UpdateMode of pnlInner to Always, and add AsyncPostBackTrigger elements to its Triggers element for every control in pnlB.

Answer: A

Question: 59

You are implementing an ASP.NET application that makes extensive use of JavaScript libraries. Not all pages use all scripts, and some scripts depend on other scripts. When these libraries load sequentially, some of your pages load too slowly. You need to use the ASP.NET Ajax Library Script Loader to load these scripts in parallel. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. In your site's master page, add a call to Sys.loader.defineScripts to define each of the scripts that are used in the site.
- B. In your site's master page, add a call to Sys.loader.registerScript to define each of the scripts that are used in the site.
- C. In each page that uses scripts, add a call to Sys.get for each script that is needed in that page.
- D. In each page that uses scripts, add a call to Sys.require for each script that is needed in that page.

Answer: A, D

Question: 60

You are implementing an ASP.NET page. Client-side script requires data. Your application includes a class named Person with a Name property of type string. The codebehind file of the page includes the following code segment.

```
public string JsonValue;
```

```
List<Person> people = GetPeopleList(); JavaScriptSerializer json = new
```

```
JavaScriptSerializer();
```

You need to use the JavaScriptSerializer class to serialize only the Name property of each item in the people list.

Which code segment should you use?

A. `JsonValue = json.Serialize(people.Select(p => p.Name));`

B. `var names = from person in people select person;`

`JsonValue = "{" + json.Serialize(names) + "}";`

C. `JsonValue = json.Serialize(people.SelectMany(p =>`

`D. Name.AsEnumerable()));`

E. `var names = from person in people select person;`

`JsonValue = json.Serialize(names);`

Answer: A

Question: 61

You are designing the user interface for an ASP.NET Web application. The Web application allows several departments to personalize the style of their sections of the Web application. All departmental section styles derive from the core styles of the Web application and can only append to the Web application's core styles. The departmental master pages inherit from the Web application's master page. You need to ensure that core CSS styles appear in all pages of the Web application. Which approach should you recommend?

A. Add a master.css file containing the CSS styles to the Web application.

B. Add a ContentPlaceHolder containing the CSS styles to the Web application's master page.

C. Link from the Web application's master page to a .css file containing the CSS styles.

D. Link from the Web application's master page to a css.ascx file containing the CSS styles.

Answer: C

Question: 62

You are designing an ASP.NET Web Forms application. You have the following requirements:

Make use of exclusive features in a newly released Web browser.

Do not change existing code files.

You need to design the application to meet the requirements. Which approach should you recommend?

A. Use a .browser file.

B. Use the HttpWorkerRequest class.

C. Use the Web application's master page.

D. Parse the UserAgent string in Page_Load.

Answer: A

Question: 63

You are designing a process for deploying an ASP.NET MVC 2 Web application to IIS6.0. You need to ensure that the Web application properly handles Web requests. Which approach should you recommend?

- A. Configure IIS to map all requests to aspnet_isapi.dll by using a wildcard script map.
- B. Configure IIS to map all requests to aspnet_wp.exe by using a wildcard script map.
- C. Modify the Web application to route all requests to an HttpHandler class.
- D. Modify the Web application to route all requests to an HttpModule class.

Answer: A

Question: 64

You are designing an ASP.NET Web application for content management. You have the following requirements:

Support multiple languages.

Support dynamic changes to site content.

Provide the ability to add content to the site without making changes to files within the application directory. You need to recommend the application's source for retrieving content. Which source should you recommend?

- A. a database based on CurrentUICulture
- B. a master page based on CurrentUICulture
- C. local resources based on CurrentCulture
- D. global resources based on CurrentCulture

Answer: A

Question: 65

You are developing an ASP.NET application by using Visual Studio 2010. You need to interactively debug the entire application. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Set the Debug attribute of the compilation node of the web.config file to true.
- B. Add a DebuggerDisplay attribute to the code-behind file of the page that you want to debug.
- C. Select the ASP.NET debugger option in the project properties.
- D. Define the DEBUG constant in the project settings.

Answer: A, C

Question: 66

You create an ASP.NET page named TestPage.aspx that contains validation controls. You need to verify that all input values submitted by the user have been validated by testing the Page.IsValid property. Which page event should add an event handler to?

- A. Init
- B. Load
- C. PreInit
- D. PreLoad

Answer: B

Question: 67

You are implementing an ASP.NET page in an e-commerce application. Code in abtnAddToCart_Click event handler adds a product to the shopping cart. The page should check the status of the shopping cart and always show a cart icon when one or more items are in the shopping cart. The page should hide the icon when the shopping cart has no items. You need to add an event handler to implement this requirement. Which event handler should you add?

- A. btnAddToCart_Click
- B. Page_Load
- C. Page_PreRender
- D. Page_PreInit

Answer: C

Question: 68

You are implementing an ASP.NET Dynamic Data Web site. The Web site includes a data context that enables automatic scaffolding for all tables in the data model. The Global.asax.cs file contains the following code segment.

```
public static void
RegisterRoutes(RouteCollection routes) { {
routes.Add(new DynamicDataRoute("{table}/ListDetails.aspx") { Action =
PageAction.List,
ViewName = "ListDetails", Model = DefaultModel
});
routes.Add(new DynamicDataRoute("{table}/ListDetails.aspx") { Action =
PageAction.Details,
ViewName = "ListDetails", Model = DefaultModel
});
}
```

You need to display the items in a table named Products by using a custom layout. What should you do?

- A. Add a new Web page named Products.aspx to the Dynamic Data\PageTemplates folder of the Web site.
- B. Add a new folder named Products to the Dynamic Data\CustomPages folder of the Web site. Add a new Web page named ListDetails.aspx to the Products folder.
- C. Add a new Web user control named Products.ascx to the Dynamic Data\Filters folder of the Web site. In the code-behind file for the control, change the base class from UserControl to System.Web.DynamicData.QueryableFilterUserControl.
- D. Add a new Web user control named Products_ListDetails.ascx to the DynamicData\EntityTemplates folder of the Web site. In the code-behind file for the control, change the base class from UserControl to System.Web.DynamicData.EntityTemplateUserControl.

Answer: B

Question: 69

You are implementing an ASP.NET MVC 2 Web application. You add a controller named CompanyController. You need to modify the application to handle the URL path /company/info. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

A. Add the following method to the CompanyController class. public ActionResult Info()
 {
 return View();
 }

B. Add the following method to the CompanyController class. public ActionResult Company_Info()
 {
 return View();
 }

C. Right-click the Views folder, and select View from the Add submenu to create the view for the action.

D. Right-click inside the action method in the CompanyController class, and select AddView to create a view for the action.

Answer: A, D

Question: 70

You are testing an existing ASP.NET page. The page includes a text box. You are able to execute malicious JavaScript code by typing it in the text box and submitting. You need to configure the page to prevent JavaScript code from being submitted by the text box. In the @ Page directive, which attribute should you set to true?

- A. the EnableEventValidation attribute
- B. the ResponseEncoding attribute
- C. the ValidateRequest attribute
- D. the Strict attribute

Answer: C

Question: 71

You are troubleshooting an ASP.NET Web application. System administrators have recently expanded your web farm from one to two servers. Users are periodically reporting an error message about invalid view state. You need to fix the problem. What should you do?

- A. Set ViewStateEncryptionMode to Auto in web.config on both servers.
- B. Set the MachineKey in machine.config to the same value on both servers.
- C. Change the session state mode to SQL Server on both servers and ensure both servers use the same connection string.
- D. Override the SavePageStateToPersistenceMedium and LoadPageStateFromPersistenceMedium methods in the page base class to serialize the view state to a local web server file.

Answer: B

Question: 72

You create a page in an ASP.NET Web application. The page retrieves and displays data from a Microsoft SQL Server

database. You need to create a data source that can connect to the database. What are two possible ways to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. Use an ObjectDataSource control and set its TypeName property to System.Data.SqlClient.SqlConnection.
- B. Use a SqlDataSource control and configure itsConnectionString in the web.config file.
- C. Use an XmlDataSource control together with an Xml control that represents the database.
- D. Use a LinqDataSource control with entity classes that represent the elements in the database.

Answer: B, D

Question: 73

A Windows Communication Foundation (WCF) service is responsible for transmitting XML documents between systems. The service has the following requirements:

It must minimize the transmission size by attaching the XML document as is without using escape characters or base64 encoding.

It must interoperate with systems that use SOAP but are not built on the .NET platform.

You need to configure the service to support these requirements.

Which message encoding should you use?

- A. Binary message encoding
- B. MTOM (Message Transmission Optimization Mechanism) message encoding
- C. Text message encoding with message version set to none
- D. Text message encoding with message version set to SOAP 1.2

Answer: B

Question: 74

You are building a client for a Windows Communication Foundation (WCF) service. You need to create a proxy to consume this service. Which class should you use?

- A. ChannelFactory<TChannel>
- B. ServiceHost
- C. ClientRuntime
- D. CommunicationObject

Answer: A

Question: 75

A Windows Communication Foundation (WCF) service has a callback contract. You are developing a client application that will call this service. You must ensure that the client application can interact with the WCF service. What should you do?

- A. On the OperationContractAttribute, set the AsyncPattern property value to True.
- B. On the OperationContractAttribute, set the ReplyAction property value to the endpoint address of the client.
- C. On the client, create a proxy derived from DuplexClientBase<TChannel>.

D. On the client, use GetCallbackChannel<T>.

Answer: C

Question: 76

You are consuming a Windows Communication Foundation (WCF) service in an ASP.NET Web application. The service interface is defined as follows.

```
[ServiceContract]
public interface ICatalog
{
    [OperationContract]
    [WebGet(UriTemplate = "/Catalog/Items/{id}",
    ResponseFormat = WebMessageFormat.Json)]
    string RetrieveItemDescription(int id);
}
```

The service is hosted at /Catalog.svc.

You need to call the service using jQuery to retrieve the description of an item as indicated by a variable named itemId. Which code segment should you use?

- A. \$.get(String.format("/Catalog.svc/Catalog/Items/?id={0}", itemId),
null,
function (data) {
...
},
"javascript");
- B. \$.get(String.format("/Catalog.svc/Catalog/Items/{0}", itemId),
null,
function (data) {
...
},
"json");
- C. \$.get(String.format("/Catalog.svc/Catalog/Items/{0}", itemId),
null,
function (data) {
...
},
"xml");
- D. \$.get(String.format("/Catalog.svc/Catalog/Items/id={0}", itemId),
null,
function (data) {
...
},
"json");

Answer: B

Question: 77

You are creating a Windows Communication Foundation (WCF) service based on WSHttpBinding. New audit

requirements dictate that callers must be authenticated on every call to ensure that their credentials have not been revoked. You need to ensure that the service will not cache the security request token. What should you do?

- A. Apply a ServiceBehavior attribute to the service implementation class with the InstanceContextMode property set to Single.
- B. In the message security configuration, change clientCredentialType from IssuedToken to UserName.
- C. In the message security configuration, set establishSecurityContext to false.
- D. At the end of every operation, call the SessionStateUtility.RaiseSessionEnd method.

Answer: C

Question: 78

You are developing a Windows Communication Foundation (WCF) service that reads messages from a public non-transactional MSMQ queue. You need to configure the service to read messages from the failed-delivery queue. Which URI should you specify in the endpoint configuration settings of the service?

- A. net.msmq://localhost/msmq\$;FailedMessages
- B. net.msmq://localhost/msmq\$;DeadLetter
- C. net.msmq://localhost/system\$;DeadXact
- D. net.msmq://localhost/system\$;DeadLetter

Answer: D

Question: 79

You are moving a Windows Communication Foundation (WCF) service into production. You need to be able to monitor the health of the service. You only want to enable all performance counter instances exposed by the ServiceModelService 4.0.0.0 counter group. Which element should you add to the system.serviceModel section in the application configuration file?

- A. <diagnostics performanceCounters="ServiceOnly" />
- B. <diagnostics wmiProviderEnabled="true" performanceCounters="Off" />
- C. <diagnostics performanceCounters="All" />
- D. <diagnostics wmiProviderEnabled="true" />

Answer: A

Question: 80

You are creating a Windows Communication Foundation (WCF) service. You do not want to expose the internal implementation at the service layer. You need to expose the following class as a service named Arithmetic with an operation named Sum.

```
public class Calculator
{
    public int Add(int x, int y)
    {
    }
}
```

Which code segment should you use?

A. [ServiceContract(Namespace="Arithmetic")]
 public class Calculator
 {
 [OperationContract(Action="Sum")]
 public int Add(int x, int y)
 {
 ...
 }
 }
 B. [ServiceContract(ConfigurationName="Arithmetic")]
 public class Calculator
 {
 [OperationContract(Action="Sum")]
 public int Add(int x, int y)
 {
 ...
 }
 }
 C. [ServiceContract(Name="Arithmetic")]
 public class Calculator
 {
 [OperationContract(Name="Sum")]
 public int Add(int x, int y)
 {
 ...
 }
 }
 D. [ServiceContract(Name="Arithmetic")]
 public class Calculator
 {
 [OperationContract(ReplyAction="Sum")]
 public int Add(int x, int y)
 {
 ...
 }
 }

Answer: C

Question: 81

A Windows Communication Foundation (WCF) service has the following contract.

```
[ServiceContract(Namespace="http://contoso.com")]
public interface IShipping
{
  [OperationContract]
  string DoWork(int id);
}
```

This is one of several service contracts hosted by your application. All endpoints use SOAP 1.2 bindings with WS-Addressing 1.0. The

System.ServiceModel.MessageLogging trace source in the system.diagnosticsconfiguration section is configured with one listener. You need to make sure that only the messages that are returned from the DoWork operation are logged. Which XML segments should you add to the system.serviceModel/diagnostics/messageLogging/filtersconfiguration element?

- A. <add xmlns:addr="http://www.w3.org/2005/08/addressing">
//addr:Action[text() =
'http://contoso.com/IShipping/DoWorkResponse']
</add>
- B. <add xmlns:soap="http://www.w3.org/2003/05/soap-envelope">
//soap:Action[text() =
'http://contoso.com/IShipping/DoWorkResponse']
</add>
- C. <add xmlns:addr="http://www.w3.org/2005/08/addressing">
//addr:Action[text() =
'http://contoso.com/IShipping/DoWork']
</add>
- D. <add xmlns:soap="http://www.w3.org/2003/05/soap-envelope">
//soap:Action[text() =
'http://contoso.com/IShipping/DoWork']
</add>

Answer: A

Question: 82

The endpoint of a Windows Communication Foundation (WCF) service uses basicHttpBinding for its binding. Your company's policies have changed to require that messages not be sent in clear text. You must ensure that all messages are encrypted when traveling across the network. What should you do?

- A. Set the ProtectionLevel property on the service contract and update the binding attribute in the endpoint element of the configuration file to wsHttpBinding.
- B. Set the ProtectionLevel property on the service contract and update the bindingConfiguration attribute in the endpoint element of the configuration file to webHttpBinding.
- C. Set the PrincipalPermissionAttribute on the service contract and update the binding attribute in the endpoint element of the configuration file to wsHttpBinding.
- D. Set the PrincipalPermissionAttribute on the service contract and update the bindingConfiguration attribute in the endpoint element of the configuration file to wsHttpBinding.

Answer: A

Question: 83

Four Windows Communication Foundation (WCF) services are hosted in Microsoft Internet Information Services (IIS). No behavior configuration exists in the web.config file. You need to configure the application so that every service and endpoint limits the number of concurrent calls to 50 and the number of concurrent sessions to 25. Which XML segment should you add to the system.serviceModel configuration section of the web.config file?

- A. <behaviors>
<serviceBehaviors>

```

<behavior name="*">
<serviceThrottling maxConcurrentCalls="50" maxConcurrentSessions="25"/>
</behavior>
</serviceBehaviors>
</behaviors>
B. <behaviors>
<serviceBehaviors>
<behavior name="default">
<serviceThrottling maxConcurrentCalls="50" maxConcurrentSessions="25"/>
</behavior>
</serviceBehaviors>
</behaviors>
C. <behaviors>
<serviceBehaviors>
<behavior name="">
<serviceThrottling maxConcurrentCalls="50" maxConcurrentSessions="25"/>
</behavior>
</serviceBehaviors>
</behaviors>
D. <behaviors>
<serviceBehaviors>
<behavior name="ALL">
<serviceThrottling maxConcurrentCalls="50" maxConcurrentSessions="25"/>
</behavior>
</serviceBehaviors>
</behaviors>

```

Answer: C

Question: 84

You are creating a Windows Communication Foundation (WCF) service that is implemented as follows. (Line numbers are included for reference only.)

```

01 [ServiceContract]
02 [ServiceBehavior(IncludeExceptionDetailsInFaults = true)]
03 public class OrderService
04 {
05     [OperationContract]
06     public void SubmitOrder(Order anOrder)
07 {
08     try
09 {
10     ...
11 }
12 catch(DivideByZeroException ex)
13 {
14
15 }
16 }
17 }

```

You need to ensure that the stack trace details of the exception are not included in the error information sent to the

client. What should you do?

A. Replace line 14 with the following line. throw;

B. Replace line 14 with the following line.

throw new FaultException<Order>(anOrder, ex.ToString()); C. After line 05, add the following line.

[FaultContract(typeof(FaultException<Order>))] Replace line 14 with the following line. throw ex;

D. After line 05, add the following line.

[FaultContract(typeof(FaultException<Order>))] Replace line 14 with the following line. throw new FaultException<Order>(anOrder, "Divide by zero exception");

Answer: D

Question: 85

You are developing an application to update a user's social status. You need to consume the service using Windows Communication Foundation (WCF). The client configuration is as follows.

```
<system.serviceModel>
<bindings>
<webHttpBinding>
<binding name="SocialConfig">
<security mode="TransportCredentialOnly">
<transport clientCredentialType="Basic"
?realm="Social API" />
</security>
</binding>
</webHttpBinding>
</bindings>
<client>
<endpoint address="http://contoso.com"
binding="webHttpBinding"
bindingConfiguration="SocialConfig"
contract="ISocialStatus"
name="SocialClient" />
</client>
</system.serviceModel>
```

The service contract is defined as follows.

```
[ServiceContract]
public interface ISocialStatus
{
[OperationContract]
[WebInvoke(UriTemplate =
"/statuses/update.xml?status={text}")]
void UpdateStatus(string text);
}
```

Which code segment should you use to update the social status?

A. using (WebChannelFactory<ISocialStatus> factory =
new WebChannelFactory<ISocialStatus>("SocialClient"))

```
{
factory.Credentials.UserName.UserName = user.Name;
factory.Credentials.UserName.Password = user.Password;
```

```

ISocialStatus socialChannel = factory.CreateChannel();
socialChannel.UpdateStatus(newStatus);
}
B. using (ChannelFactory<ISocialStatus> factory =
new WebChannelFactory<ISocialStatus>(typeof(ISocialStatus)))
{
factory.Credentials.UserName.UserName = user.Name;
factory.Credentials.UserName.Password = user.Password;
ISocialStatus socialChannel = factory.CreateChannel();
socialChannel.UpdateStatus(newStatus);
}
C. using (ChannelFactory<ISocialStatus> factory =
new ChannelFactory<ISocialStatus>("POST"))
{
factory.Credentials.Windows.ClientCredential.UserName =
user.Name;
factory.Credentials.Windows.ClientCredential.SecurePassword.
SetAt(0, Convert.ToChar(user.Password));
ISocialStatus socialChannel = factory.CreateChannel();
socialChannel.UpdateStatus(newStatus);
}
D. using (WebChannelFactory<ISocialStatus> factory =
new WebChannelFactory<ISocialStatus>(typeof(ISocialClient)))
{
factory.Credentials.Windows.ClientCredential.UserName =
user.Name;
factory.Credentials.Windows.ClientCredential.SecurePassword.
SetAt(0, Convert.ToChar(user.Password));
ISocialStatus socialChannel = factory.CreateChannel();
socialChannel.UpdateStatus(newStatus);
}

```

Answer: A

Question: 86

Windows Communication Foundation (WCF) application uses a data contract that has several data members. You need the application to throw a Serialization Exception if any of the data members are not present when a serialized instance of the data contract is deserialized. What should you do?

- A. Add the Known Type attribute to the data contract. Set a default value in each of the data member declarations.
- B. Add the Known Type attribute to the data contract. Set the Order property of each data member to unique integer value.
- C. Set the Emit Default Value property of each data member to false.
- D. Set the IsRequired property of each data member to true.

Answer: D

Question: 87

A WCF service code is implemented as follows. (Line numbers are included for reference only.) For interactive and self-paced preparation of exam 70-513, try our practice exams. Practice exams also include self assessment and reporting features!

```

01 <ServiceContract()>
02 <ServiceBehavior(
03 InstanceContextMode:=InstanceContextMode.Single)>
04 Public Class CalculatorService
05
06 <OperationContract()>
07 Public Function Calculate(ByVal op1 As Double,
08 ByVal op As String, ByVal op2 As Double) As Double
...
24 End Function
25
26 End Class

```

You need to increase the rate by which clients get the required response from the service. What are two possible ways to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. Change the service behavior to the following.
<ServiceBehavior(InstanceContextMode:=InstanceContextMode.Single, ConcurrencyMode:=ConcurrencyMode.Multiple)>
- B. Change the service behavior to the following.
<ServiceBehavior(InstanceContextMode:=InstanceContextMode.PerCall)>
- C. Require the clients use threads, the Parallel Task Library, or other mechanism to issue service calls in parallel.
- D. Require the clients to use async operations when calling the service.

Answer: A, B

Question: 88

You are adding a Windows Communication Foundation (WCF) service to an existing application. The application is configured as follows. (Line numbers are included for reference only.)

```

01 <configuration>
02 <system.serviceModel>
03 <services>
04 <service name="Contoso.Sales.StockService"
05 behaviorConfiguration="MetadataBehavior">
06 <host>
07 <baseAddresses>
08 <add
baseAddress="http://contoso.com:8080/StockService" />
09 </baseAddresses>
10 </host>
11 </service>
12 </services>
13 <behaviors>
14 <serviceBehaviors>
15 <behavior name="MetadataBehavior">
16 </behavior>
17 </serviceBehaviors>

```


18 </behaviors>

You need to configure the service to publish the service metadata.

Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

A. Add the following XML segment between lines 10 and 11.

```
<endpoint address=""
binding="mexHttpBinding"
contract="IMetadataExchange"
/>
```

B. Add the following XML segment between lines 10 and 11.

```
<endpoint address=""
binding="basicHttpBinding"
contract="IMetadataExchange"
/>
```

C. Add the following XML segment between lines 15 and 16.

```
<serviceDiscovery>
<announcementEndpoints>
<endpoint address=""/>
</announcementEndpoints>
</serviceDiscovery>
```

D. Add the following XML segment between lines 15 and 16

```
<serviceMetadata httpGetEnabled="true"/>
```

Answer: A, D

Question: 89

You are creating a Windows Communication Foundation (WCF) service to process orders. The data contract for the order is defined as follows.

```
[DataContract]
public class Order {
    [DataMember] public string CardHolderName { get; set; }
    [DataMember] public string CreditCardNumber { get; set; }
}
```

You have the following requirements:

"Enable the transmission of the contents of Order from the clients to the service.

"Ensure that the contents of CreditCardNumber are not sent across the network in clear text. "Ensure that the contents of CreditCardNumber are accessible by the service to process the order. You need to implement the service to meet these requirements. What should you do?

A. Add a DataProtectionPermission attribute to the CreditCardNumber property and set the ProtectData property to true.

B. Convert the DataContract to a MessageContract and set the ProtectionLevel property to SignAndEncrypt.

C. Change the data type of CreditCardNumber from string to SecureString.

D. Implement the CreditCardNumber property getter and setter.

In the setter, run the value of the CreditCardNumber through the MD5CryptoServiceProvider class TransformBlock method.

Answer: B

Question: 90

You are designing a data access service backed by Microsoft SQL Server. Other developers will use your service as a third-party service. You have the following requirements:

To reduce maintenance cost, you must write the minimal amount of code required for fulfilling the goals.

The service must function with Microsoft and non-Microsoft technologies.

The service must implement the WS-Security standards. You need to design the service to meet the requirements.

Which approach should you recommend?

- A. Use an ASP.NET Web service.
- B. Use SQL Server XML Web services.
- C. Use a WCF service with multiple bindings.
- D. Use an .ashx file to return an XML response over HTTPS.

Answer: C

Question: 91

You are creating a Windows Communication Foundation (WCF) service that implements operations in a RESTful manner. You need to add a delete operation. You implement the delete method as follows. `string void DeleteItems(string id);`

You need to configure WCF to call this method when the client calls the service with the HTTP DELETE operation. What should you do?

- A. Add the `WebInvoke(UriTemplate = "/Items/{id}", Method="DELETE")` attribute to the operation.
- B. Add the `HttpDelete` attribute to the operation.
- C. Replace the string parameter with a `RemovedActivityAction` parameter.
- D. Replace the return type with `RemovedActivityAction`.

Answer: A

Question: 92

Your Windows Communication Foundation (WCF) client application uses HTTP to communicate with the service. You need to enable message logging and include all security information such as tokens and nonces in logged messages. What should you do?

A. In the application configuration file, add the `logKnownPii` attribute to the message logging diagnostics source and set the value of the attribute to true. Generate the `ContosoService` class using the Add Service Reference wizard. Add a reference to `System.ServiceModel.Routing.dll`. Add the following code segment.

```
Dim client As ContosoService = New ContosoService()
Dim behavior As SoapProcessingBehavior = New SoapProcessingBehavior()
behavior.ProcessMessages = True
client.Endpoint.Behaviors.Add(behavior)
```

B. In the application configuration file, add the following XML segment to the `system.serviceModel` configuration section group.

```
<diagnostics>
<messageLogging logMessagesAtTransportLevel="true"
logEntireMessage="true" />
</diagnostics>
```

C. In the machine configuration file, add the following XML segment to the system.serviceModel configuration section.

```
<machineSettings enableLoggingKnownPii="true" />
```

Generate the ContosoService class using the Add Service Reference wizard. Add the following code segment.

```
Dim client As ContosoService = New ContosoService()  
client.Endpoint.Behaviors.Add(New CallbackDebugBehavior(True))
```

D. In the machine configuration file, add the following XML segment to the system.serviceModel configuration section.

```
<machineSettings enableLoggingKnownPii="true" />
```

In the application configuration file, add the logKnownPii attribute to the message logging diagnostics source and set the value of the attribute to true. In the application configuration file, add the following XML segment to the system.serviceModel configuration section group.

```
<diagnostics>  
<messageLogging logMessagesAtTransportLevel="true"/>  
</diagnostics>
```

Answer: D

Question: 93

You are creating a Windows Communication Foundation (WCF) service that accepts messages from clients when they are started.

The message is defined as follows.

```
[MessageContract] public class Agent {  
    public string CodeName { get; set; }  
    http://www.test4pass.com Leading the way in IT Certification Exams public string  
    SecretHandshake { get; set; }  
}
```

You have the following requirements:

"The CodeName property must be sent in clear text.

The service must be able to verify that the property value was not changed after being sent by the client.

"The SecretHandshake property must not be sent in clear text and must be readable by the service. What should you do?

A. Add a MessageBodyMember attribute to the CodeName property and set the ProtectionLevel to Sign. Add a MessageBodyMember attribute to the SecretHandshake property and set the ProtectionLevel to EncryptAndSign.

B. Add a DataProtectionPermission attribute to the each property and set the ProtectData property to true.

C. Add an XmlText attribute to the CodeName property and set the DataType property to Signed. Add a PasswordPropertyText attribute to the SecretHandshake property and set its value to true.

D. Add an ImmutableObject attribute to the CodeName property and set its value property to true. Add aBrowsable attribute to the SecretHandshake property and set its value to false.

Answer: A

Question: 94

You need to design a solution for capturing an exception. Which approach should you recommend?

- A. Use a Page_Error method.
- B. Use a HandleError attribute.
- C. Use a customErrors element.
- D. Use an Application_Error method.

Answer: B

Question: 95

You need to recommend appropriate technologies for designing Web forms for entry and retrieval of news items. Which technologies should you recommend? (Each correct answer presents a complete solution. Choose two.)

- A. ASMX and SOAP
- B. WCF Data Services and jQuery
- C. ASP.NET MVC 2 and Microsoft AJAX
- D. Entity Framework and Microsoft Silverlight

Answer: B, C

Question: 96

You need to design a solution for programmatically adding reusable user-interface code to views and allowing the user-interface code to be rendered from the server side. Which approach should you recommend?

- A. Create a jQuery library plug-in.
- B. Create an HtmlHelper extension method.
- C. Create a controller that returns an ActionResult.
- D. Create a WebForm server control that stores values in ViewState.

Answer: B

Question: 97

You need to design a deployment solution for the rewritten Web application. Which approach should you recommend?

- A. Use MSDeploy and FTP.
- B. Use DB Deployment and FTP.
- C. Use MSDeploy and One-Click Publishing.
- D. Use DB Deployment and One-Click Publishing.

Answer: C

Question: 98

You need to design session state management for the rewritten Web application. Which approach should you recommend?

- A. Use a persistent cookie to store the authentication ticket.
- B. Use a third-party cookie to store the authentication ticket.
- C. Use different machine key element attributes and values across all three servers.
- D. Use the same machine key element attributes and values across all three servers.

Answer: D

Question: 99

You are planning a deployment process for a set of interrelated Web services. You need to ensure maximum availability of the Web services in the event of a hardware or software failure. Which approach should you recommend?

- A. Run each distinct service on a separate physical machine.
- B. Run each distinct service on two separate physical machines.
- C. Run each distinct service on a separate virtual machine (VM).
- D. Run each distinct service on two virtual machines (VMs) hosted on one physical machine.

Answer: B

Question: 100

You need to design a deployment solution for the rewritten Web application. Which approach should you recommend?

- A. Deploy the rewritten Web application to the existing file path on each server in the Web farm.
- B. Compile the rewritten Web application and deploy the compiled library to the global assembly cache.
- C. Add the rewritten Web application to an application pool that contains only ASP.NET4 Web applications.
- D. Add the rewritten Web application to the same application pool as Web applications written in ASP.NET 2.0, ASP.NET 3.0, and ASP.NET 3.5.

Answer: C
