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**Vendor:**Microsoft

**Exam Code:**70-494

**Exam Name:**Re for MCSD: Web Applications

**Version:**Demo

## QUESTION 1

Transformed historical flight information provided by the `RemoteDataStream()` method must be written to the response stream as a series of XML elements named `Flight` within a root element named `Flights`. Each `Flight` element has a child element named `FlightName` that contains the flight name that starts with the two-letter airline prefix.

You need to implement the `StreamHistoricalFlights()` method so that it minimizes the amount of memory allocated.

Which code segment should you use as the body of the `StreamHistoricalFlights()` method in the `HistoricalDataLoader.es` file?

- A. 

```
responseWriter.WriteStartElement("Flights");
var flights = RemoteDataStream()
    .OrderBy(x => GetAirline(x.Element("FlightName")));
var filteredFlights = flights
    .SkipWhile(x => GetAirline(x.Element("FlightName")) != airline);
foreach (var f in filteredFlights)
{
    var flight = ConvertToHistoricalFlight(f);
    flight.WriteTo(responseWriter);
}
responseWriter.WriteEndElement();
```
- B. 

```
responseWriter.WriteStartElement("Flights");
var flights = RemoteDataStream().Select(x =>
{
    if (GetAirline(x) == airline)
    {
        return ConvertToHistoricalFlight(x);
    }
    return null;
});
flights.TakeWhile(x =>
{
    x.WriteTo(responseWriter);
    return x != null;
});
responseWriter.WriteEndElement();
```
- C. 

```
var data = RemoteDataStream().ToDictionary(x =>
    GetAirline(x.Element("FlightName")),
    x => new XElement("Flights", ConvertToHistoricalFlight(x).Descendants()));
data[airline].WriteTo(responseWriter);
```
- D. 

```
var flights = new XElement("Flights",
    from flight in RemoteDataStream()
    where GetAirline(flight.Element("FlightName")) == airline
    select ConvertToHistoricalFlight(flight));
flights.WriteTo(responseWriter);
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

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## QUESTION 2

You need to modify the application to meet the productId requirement. What should you do?

- A. Modify the RegisterGlobalFilters method of the Global.asax.cs file as follows. `Contract.Assume(productId != 0);`
- B. Modify the GetDealPrice method of ProductController as follows. `Contract.Requires(productId > 0);`
- C. Modify the RegisterGlobalFilters method of the Global.asax.cs file as follows. `Contract.Requires(productId > 0);`
- D. Modify the GetDealPrice method of ProductController as follows. `Contract.Assume(productId > 0);`

Correct Answer: B

---

## QUESTION 3

You are designing a distributed banking application that handles multiple customers. A user may log on to the site to perform activities such as checking balances, performing transactions, and other activities that must be done securely.

The application must store secure information that is specific to an individual user. The data must be automatically and securely purged when the user logs off.

You need to save transient information in a secure data store.

Which data store should you use?

- A. NET session state
- B. NET profile properties
- C. NET application state
- D. Shared database

Correct Answer: A

---

## QUESTION 4

You are developing an ASP.NET MVC application that reads and writes data from a SQL Server database.

You need to prevent the application from reading data that is locked by other transactions.

You also need to prevent exclusive range locks.

Which isolation level should you use?

- A. ReadCommitted
- B. Serializable
- C. Repeatable
- D. ReadUncommitted

Correct Answer: A

### QUESTION 5

You need to ensure that the transcode.exe utility is installed before the worker role starts.

How should you implement the startup task? (To answer, drag the appropriate values to the correct element or attribute. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll

to view content.)

Select and Place:

The screenshot shows a configuration interface for a startup task. On the left, there is a list of options to be dragged into the XML code: Variable, Environment, foreground, background, and simple. The XML code on the right is as follows:

```

<Startup>
  <Task commandLine="msiexec transcode.msi" taskType="<input type="text"/>">
    <input type="text"/>
    <input type="text" name="license" value="825534"></input> <input type="text"/>
  </input>
</Task>
</Startup>

```

Correct Answer:

```
<Startup>
  <Task commandLine="msiexec transcode.msi" taskType=" simple " >
    < Environment >
      < Variable name="license" value="825534"></ Variable >
    </ Environment >
  </Task>
</Startup>
```

#### QUESTION 6

You need to regenerate the service proxies to include task-based asynchronous method signatures. Which command should you use?

- A. `aspnet_regiis.exe /t:code http://localhost:62965/UploadCallbackService.svc`
- B. `svcutil.exe /t:code http://localhost:62965/UploadCallbackService.svc`
- C. `aspnet_compiler.exe /t:code http://localhost:62965/UploadCallbackService.svc`
- D. `aspnet_regiis.exe /t:code http://localhost:62965/UploadService.svc`
- E. `svcutil.exe /t:code http://localhost:62965/UploadService.svc`

Correct Answer: B

#### QUESTION 7

You are developing an ASP.NET MVC application in Visual Studio 2012. The application contains sensitive bank account data. The application contains a helper class named `SensitiveData.Helpers.CustomEncryptor`.

```
public class CustomEncryptor
{
    public string Encrypt(string plaintext)
    {
        ...
    }
}
```

The application contains a controller named **BankAccountController** with two actions.

```
public class BankAccountController : Controller
{
    public ActionResult GetAccounts()
    {
        ...
    }

    public ActionResult EditAccount(string maskedAccountNum)
    {
        ...
    }
}
```

The application contains a model named **BankAccount**, which is defined in the following code segment.

```
public class BankAccount
{
    public string AccountNumber { get; set; }
    public string AccountName { get; set; }
    public double Balance { get; set; }
}
```

The application must not display AccountNumber in clear text in any URL.

You need to build the view for the GetAccounts action.

How should you build the view? (To answer, drag the appropriate code segment to the correct location or locations. Each code segment may be used once, more than once, or not at all. You may need

to drag the split bar between panes or scroll to view content.)

Select and Place:

custEncrypt
maskedAccountNum
Html
Encrypt (item.AccountNumber)
Encode (item.AccountNumber)

```
@model IEnumerable<SensitiveData.Models.GamerAccount>
@{
    SensitiveData.Helpers.CustomEncryptor custEncrypt =
        new SensitiveData.Helpers.CustomEncryptor();
}
<h2>GetAccounts</h2>
<table>
    <tr>
        <th>Account Name</th>
        <th>Balance</th>
    </tr>
    @foreach (var item in Model)
    {
        <tr>
            <td>@Html.DisplayFor(modelItem => item.AccountName)</td>
            <td>@Html.DisplayFor(modelItem => item.Highscore)</td>
            <td>
                @Html.ActionLink("Edit", "EditAccount",
                    new {
                        =
                    }
                )
            </td>
        </tr>
    }
</table>
```

Correct Answer:

```

@model IEnumerable<SensitiveData.Models.GamerAccount>
@{
    SensitiveData.Helpers.CustomEncryptor custEncrypt =
        new SensitiveData.Helpers.CustomEncryptor();
}
<h2>GetAccounts</h2>
<table>
    <tr>
        <th>Account Name</th>
        <th>Balance</th>
    </tr>
    @foreach (var item in Model)
    {
        <tr>
            <td>@Html.DisplayFor(modelItem => item.AccountName)</td>
            <td>@Html.DisplayFor(modelItem => item.Highscore)</td>
            <td>
                @Html.ActionLink("Edit", "EditAccount",
                    new {
                        maskedAccountNum =
                            custEncrypt
                                .Encrypt(item.AccountNumber)
                    })
            </td>
        </tr>
    }
</table>

```

**QUESTION 8**

You are developing an order processing application that uses the ADO.NET Entity Framework against a SQL Server database. Lazy loading has been disabled. The application displays orders and their associated order details. Order details are filtered based on the category of the product in each order.

The Order class is shown below.

```

public partial class Order
{
    ...
    public int OrderID { get; set; }
    ...
    public virtual ICollection<OrderDetail> OrderDetails { get; set; }
    ...
}

```

The OrderDetail class is shown below.



```

public partial class OrderDetail
{
    [Key, Column(Order = 1)]
    public int OrderID { get; set; }
    [Key, Column(Order = 2)]
    public int ProductID { get; set; }
    ...
    public virtual Order Order { get; set; }
    public virtual Product Product { get; set; }
}

```

The Product class is shown below.

```

public partial class Product
{
    ...
    public int ProductID { get; set; }
    public string ProductName { get; set; }
    ...
    public Nullable<int> CategoryID { get; set; }
    ...
    public virtual Category Category { get; set; }
    ...
}

```

The Category class is shown below.

The **Category** class is shown below.

```

public partial class Category
{
    ...
    public int CategoryID { get; set; }
    public string CategoryName { get; set; }
    ...
    public virtual ICollection<Product> Products { get; set; }
}

```

You need to return orders with their filtered list of order details included in a single round trip to the database. Which code segment should you use?

- A. `var orders = db.Orders.SelectMany(o => o.OrderDetails.  
Where(od => od.Product.Category.CategoryName == categoryName)).  
Select(od => new { order = od.Order, detail = od }).  
Select(r => r.order);`
- B. `var orders = db.Orders.SelectMany(o => o.OrderDetails.  
Where(od => od.Product.Category.CategoryName == categoryName)).  
Select(od => new { order = od.Order, detail = od }).ToList().  
Select(r => r.order);`
- C. `var orderDetails = db.Orders.SelectMany(o => o.OrderDetails.  
Where(od => od.Product.Category.CategoryName == categoryName)).ToList();  
List<int> orderIDs = orderDetails.Select(od => od.OrderID).ToList();  
var orders = db.Orders.Where(o => orderIDs.Contains(o.OrderID));`
- D. `var orderDetails = db.Orders.SelectMany(o => o.OrderDetails.  
Where(od => od.Product.Category.CategoryName == categoryName));  
List<int> orderIDs = orderDetails.Select(od => od.OrderID).ToList();  
var orders = db.Orders.Where(o => orderIDs.Contains(o.OrderID));`

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

---

#### QUESTION 9

You need to update the ImportBooks() method to use database transactions. Which code segment should you use?

- A. `SqlConnection.BeginTransaction(IsolationLevel.RepeatableRead);`
- B. `SqlConnection.BeginTransaction(IsolationLevel.ReadUncommitted);`
- C. `SqlConnection.BeginTransaction(IsolationLevel.Serializable);`
- D. `SqlConnection.BeginTransaction(IsolationLevel.Snapshot);`

Correct Answer: B

---

#### QUESTION 10

The PurchaseOrders.xml file contains all of the purchase orders for the day.

You need to query the XML file for all of the shipping addresses.

Which code segment should you use?

- A. 

```
XElement root = XElement.Load("PurchaseOrders.xml");
XNamespace aw = "http://www.adventure-works.com";
IEnumerable<XElement> address =
    from el in root.Elements(aw + "Items")
    where (string)el.Attribute(aw + "Type") == "Billing"
    select el;
foreach (XElement element in address)
{
    Console.WriteLine(element);
}
```
- B. 

```
XElement root = XElement.Load("PurchaseOrders.xml");
XNamespace aw = "http://www.adventure-works.com";
IEnumerable<XElement> address =
    from el in root.Elements(aw + "Address")
    where (string)el.Attribute(aw + "Type") == "Shipping"
    select el;
foreach (XElement element in address)
{
    Console.WriteLine(element);
}
```
- C. 

```
XElement root = XElement.Load("PurchaseOrders.xml");
XNamespace aw = "http://www.adventure-works.com";
IEnumerable<XElement> address =
    from el in root.Elements(aw + "Address")
    where (string)el.Attribute(aw + "Type") == "Billing"
    select el;
foreach (XElement element in address)
{
    Console.WriteLine(element);
}
```
- D. 

```
XElement root = XElement.Load("PurchaseOrders.xml");
XNamespace aw = "http://www.adventure-works.com";
IEnumerable<XElement> address =
    from el in root.Elements(aw + "Items")
    where (string)el.Attribute(aw + "Type") == "Shipping"
    select el;
foreach (XElement element in address)
{
    Console.WriteLine(element);
}
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

### QUESTION 11

You are developing an ASP.NET MVC application that takes customer orders.

Orders are restricted to customers with IP addresses based in the United States.

You need to implement a custom route handler.

How should you implement the route handler? (To answer, drag the appropriate line of code to the correct location or locations. Each line of code may be used once, more than once, or not at all. You

may need to drag the split bar between panes or scroll to view content.)

Select and Place:

The screenshot shows a development environment with a list of classes on the left and a code editor on the right. The list of classes includes: IHttpHandler, IRouteFactory, IRouteHandler, IHttpConstraint, RequestContext, and ServerContext. The code editor shows the following code:

```
public class USOnlyRouteHandler :  
{  
    public GetHttpHandler(  
        requestContext)  
    {  
        return new USIPHandler(requestContext);  
    }  
}
```

The code is partially filled with blue boxes, indicating that the user has placed some code blocks. A watermark "www.Pass4Lead.com" is visible across the code.

Correct Answer:

The screenshot shows the same development environment as above, but with the correct implementation of the route handler. The list of classes on the left is now empty. The code editor shows the following code:

```
public class USOnlyRouteHandler : IRouteHandler  
{  
    public IHttpHandler GetHttpHandler(RequestContext  
        requestContext)  
    {  
        return new USIPHandler(requestContext);  
    }  
}
```

The code is now fully implemented with the correct class names and return types. A watermark "www.Pass4Lead.com" is visible across the code.

## QUESTION 12

You are developing an ASP.NET MVC Web API application.

The methods of the Web API must return details about the result of the operation.

You need to create methods to update and delete products.

You have the following code:

```
public void PutProduct (int id, Product contact)
{
    contact.Id = id;
    if (!repository.Update(contact))
    {
        throw new Target 1 (
            new Target 2 (
                HttpStatusCode. Target 3 ));
    }
}
public HttpResponseMessage DeleteProduct (int id)
{
    repository.Remove (id);
    return new Target 4 (
        HttpStatusCode. Target 5 );
}
```

Which code segments should you include in Target 1, Target 2, Target 3, Target 4 and Target 5 to complete the code? (To answer, drag the appropriate code segments to the correct targets in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Select and Place:

Code Segments	Answer Area
<input type="text" value="HttpResponseException"/>	Target 1: <input type="text" value="Code Segment"/>
<input type="text" value="HttpResponseMessage"/>	Target 2: <input type="text" value="Code Segment"/>
<input type="text" value="NotFound"/>	Target 3: <input type="text" value="Code Segment"/>
<input type="text" value="NoContent"/>	Target 4: <input type="text" value="Code Segment"/>
	Target 5: <input type="text" value="Code Segment"/>

Correct Answer:

### Code Segments

HttpException

HttpResponseMessage

NotFound

NoContent

### Answer Area

Target 1:

HttpException

Target 2:

HttpResponseMessage

Target 3:

NotFound

Target 4:

HttpResponseMessage

Target 5:

NoContent

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