Exam Questions 70-551

UPGRADE: MCAD Skills to MCPD Devpr by Using the MS .NET Frmwk
1. You develop Web-based client applications. You are developing a custom Web control named ShoppingCart.
   The ShoppingCart control tracks the products in a user's shopping cart. The ShoppingCart control contains a read-only property named SubTotal. The pages that use the ShoppingCart control compare the SubTotal property with the user's credit limit before attempting to add any new items to the user's shopping cart. The ShoppingCart control also contains display properties, such as Font, Color, and DisplayDirections. These properties are not critical to the functionality of the control.
   You need to establish how to implement the SubTotal property and the display properties in the ShoppingCart control. What should you do?

   A. Use the ControlState state to persist the SubTotal property and the ViewState state to persist the display properties.
   B. Use the ViewState state to persist the SubTotal property and the ControlState state to persist the display properties.
   C. Retrieve the value for the SubTotal property from the database, and persist the display properties by using the ControlState state.
   D. Use the ViewState state to persist the SubTotal property, and persist the display properties by using the ViewState.

   Answer: A

2. You create Web-based client applications. You create a public function for your application that must connect to a data source. The public function must also perform a series of updates to the data. Some of the operations will result in exceptions if there are errors.
   Your exception handling mechanism must meet the following requirements:
   Callers of the function must be able to ascertain whether the function succeeded or failed. If the function failed, callers of the function must be able to find where and why it failed. If there is any error, the function must immediately stop processing.
   You need to identify the best exception handling mechanism. What should you do?

   A. Return an application-specific error code indicating overall success or failure of the function, with subcodes indicating the stage where failure occurred.
   B. Permit any exceptions that are thrown by called functions to propagate the call stack and throw an application-specific exception detailing the cause of failure if a local operation fails. Do not return a status code or throw an exception if the function succeeds.
   C. Permit any exceptions that are thrown by called functions to propagate the call stack and throw an application-specific exception detailing the cause of failure if a local operation fails. Return a status code detailing whether the function succeeds or does not succeed.
   D. Return an application-specific exception that includes any caught exceptions or return null if the entire function succeeds.

   Answer: B

your company. You need to evaluate the design concept for the main page.

default.aspx. The default.aspx page contains static information, except for one data
grid that displays information about the company's products. The data grid will
retrieve the data from a component. The component will retrieve the data from a
stored procedure. The page has the appropriate permissions to the Microsoft SQL
Server database.

The application design must achieve the following goals without altering the data
component:

The default.aspx page must load quickly.
The default.aspx page must contain the latest data from the database.

You decide to use a sqlCacheDependency attribute to ensure that the default.aspx
page always displays the latest data in the grid. You need to ascertain whether the
use of the sqlCacheDependency attribute meets the requirements of this application.

Which rationale should you choose?

A. The use of the sqlCacheDependency attribute is not feasible. The sqlCacheDependency
attribute must be used in the component and not on the page.
B. The use of the sqlCacheDependency attribute is not feasible. The sqlCacheDependency
attribute cannot be used with a stored procedure.
C. The use of the sqlCacheDependency attribute is feasible. The sqlCacheDependency
attribute can be used by including a sqlDependency attribute in the @OutputCache
directive of the page.
D. The use of the sqlCacheDependency attribute is feasible. The sqlCacheDependency
attribute can be linked to the data component that is used on the page.

Answer: C

4. You are creating a custom user control. The custom user control will be used on 10
Web Forms for an ASP.NET Web site that allows users to register and log on to a personalized experience.
The custom user control uses two TextBox controls and two Button controls. You
need to ensure that the controls are visible only when users are not logged on to the
Web site. You also need to minimize the amount of effort in development and
maintenance for the Web site. Which two actions should you perform? (Each correct
answer presents part of
the solution. Choose two.)

A. Add the OnClick event handler for the Login button to the code used in the custom user
control.
B. Add the OnClick event handler for the Login button to the code used in the Web Form
where the control is added.
C. In the Page_Load method of the Web Form, add a code segment to set the visibility of
the TextBox and Button controls where the control is added.
D. In the Page_Load method of the custom user control, add a code segment to set the
visibility of the TextBox and Button controls.
5. You create Web-based applications. You are creating an application that manages travel arrangements. Users can book business trips through the application and submit their expense reports. The current design specifies that 10 components are consumed by the application. You need to identify the components that require integration testing. Which three components should you choose? (Each correct answer presents part of the solution. Choose three.)
A. public Web service to retrieve weather information
B. third-party Web service to book flights
C. third-party Web service to book car rentals
D. locally hosted COM+ component to book hotels
E. locally hosted data access component to access a central database
F. the .NET Framework Web server controls
Answer: A,B,C

6. You create an application to send a message by e-mail. An SMTP server is available on the local subnet. The SMTP server is named smtp.contoso.com. To test the application, you use a source address, me@contoso.com, and a target address, you@contoso.com. You need to transmit the e-mail message. Which code segment should you use?
A. Dim MailFrom As New MailAddress("me@contoso.com", "Me")Dim MailTo As New MailAddress("you@contoso.com", "You")Dim Message As New MailMessage(MailFrom, MailTo)Message.Subject = "Greetings"Message.Body = "Test"Message.Dispose()
B. Dim SMTPClient As String = "smtp.contoso.com"Dim MailFrom As String = "me@contoso.com"Dim MailTo As String = "you@contoso.com"Dim Subject As String = "Greetings"Dim Body As String = "Test"Dim Message As New MailMessage(MailFrom, MailTo, Subject, SMTPClient)
C. Dim MailFrom As New MailAddress("me@contoso.com", "Me")Dim MailTo As New MailAddress("you@contoso.com", "You")Dim Message As New MailMessage(MailFrom, MailTo)Message.Subject = "Greetings"Message.Body = "Test"Dim objClient As New SmtpClient("smtp.contoso.com")objClient.Send(Message)
D. Dim MailFrom As New MailAddress("me@contoso.com", "Me")Dim MailTo As New MailAddress("you@contoso.com", "You")Dim Message As New MailMessage(MailFrom, MailTo)Message.Subject = "Greetings"Message.Body = "Test"Message.Dispose()
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*Greetings* Message.Body = "Test" Dim Info As New SocketInformation Dim Client As New Socket(Info)
Dim Enc As New ASCIIEncoding Dim Bytes() As Byte =
Enc.GetBytes(Message.ToString) Client.Send(Bytes)

Answer: C

7. You create the following Web user control named ErrorMessages.

```xml
<%@ Control Language="VB" AutoEventWireup="false"
CodeFile="ErrorMessages.ascx.vb" Inherits="ErrorMessages" %>
<script>
Protected m_Text As String = "This is a default message!"
Public Property Text() As String
Get
Return m_Text
End Get
Set(ByVal value As String)
  m_Text = value
End Set
End Property
</script>
```

The ErrorMessages control uses a public property that displays the error message.

You need to change the default error message property on the Web Form in which the control is implemented. Which code segment should you use?

A. `<fabricam:Message id="MyMessage" MyMessage-Text="This is a custom message!" runat="server"/>
B. `<fabricam:Message id="MyMessage" MessageText="This is a custom message!" runat="server"/>
C. `<fabricam:Message id="MyMessage" Text="This is a custom message!" runat="server"/>
D. `<fabricam:Message id="MyMessage" Message_Text="This is a custom message!" runat="server"/>

Answer: C

8. You create a DirectorySecurity object for the working directory. You need to identify the user accounts and groups that have read and write permissions. Which method should you use on the DirectorySecurity object?

A. the GetAuditRules method
B. the GetAccessRules method
C. the AccessRuleFactory method
D. the AuditRuleFactory method

Answer: B

9. You are writing a method to compress an array of bytes. The array is passed to the
method in a parameter named document. You need to compress the incoming array
of bytes and return the result as an array of bytes. Which code segment should you
use?

A. Dim objStream As New MemoryStream(document) Dim objDeflate As New
DeflateStream(objStream, CompressionMode.Compress) Dim result(document.Length) As Byte
objDeflate.Write(result, 0, result.Length) Return result

B. Dim objStream As New MemoryStream(document) Dim objDeflate As New
DeflateStream(objStream, CompressionMode.Compress) objDeflate.Write(document, 0, document.Length) objDeflate.Close()
Return objStream.ToArray

C. Dim objStream As New MemoryStream() Dim objDeflate As New
DeflateStream(objStream, CompressionMode.Compress) objDeflate.Write(document, 0, document.Length) objDeflate.Close()
Return objStream.ToArray

D. Dim objStream As New MemoryStream() Dim objDeflate As New
DeflateStream(objStream, CompressionMode.Compress) Dim outStream As New MemoryStream
Dim b As Integer
While (b = objDeflate.ReadByte) outStream.WriteByte(CByte(b)) End While Return outStream.ToArray

Answer: C

10. You develop Web-based client applications. Your team is developing a Web site for Coho Winery to handle order processing. Both sales staff and customers will use the Web site to place orders. You must develop the data component that will be called by the Web-based application such that the Web-based application meets the following criteria:
The application uses separate Web pages for sales staff and customers to place orders.
Sales staff can apply a discount to the order.
Customers cannot apply any discount to the order.
Future changes to the pricing structure can be implemented by using the minimum amount of code. You need to ensure that the data component that you develop meets the outlined criteria. What should you do?

A. Create a CohoWinery class. The CohoWinery class must include a method named PlaceOrder. The
PlaceOrder method must include a Boolean parameter named SalesPerson. If SalesPerson is True, a discount must be applied to the order.

B. Create an Order class. The Order class must include two methods named CustomerPlaceOrder and SalesPersonPlaceOrder. The CustomerPlaceOrder method must
accept all the parameters that are necessary for a customer to place an order. The SalesPersonPlaceOrder method must accept all the parameters that are necessary for a sales person to place an order, including the Discount parameter.

C. Create a Customer class and a SalesPerson class. Each class must include a method named PlaceOrder. Each method must include all the parameters that are necessary for placing an order. The PlaceOrder method in the SalesPerson class must include a parameter for discount.

D. Create an Order class. The Order class must include an overloaded method named PlaceOrder. One version of the PlaceOrder method must accept a parameter for discount. The parameter for discount must be used to calculate a discount on the order.

Answer: D

11. You create a personalized home page. You want to enable users to choose from a selection of daily headlines from different news providers. You create a series of custom user controls. Each control points to a different news provider. You need to add these controls to the personalized home page. What should you do?

A. Add the controls to a CatalogZone.
B. Add the controls to a WebPartManager.
C. Add the controls to a WebPartZone.
D. Add the controls to a PageCatalogPart.

Answer: C

12. You create Web-based client applications. You deploy an application for a company. The application enables customers to access mobile phone invoices. Users report that the application fails to respond and time-outs occur. You test the application and find that the reports are valid. You need to identify the cause of the problem. Which analysis strategy should you use?

B. Start the event viewer Microsoft Management Console snap-in. Switch to the Application view. Look for high counts of number of requests timed that are shown at configured intervals.
D. Open the Trace.axd file. Scroll to the performance count category. Look for high counts of requests queued and requests timed out.
E. Start the event viewer Microsoft Management Console snap-in. Switch to the System view. Apply a filter to show only ASP.NET related events. Look for high counts of number of requests timed out that are shown at configured intervals.

Answer: A
13. You create Web-based client applications. You are reviewing a Web application page that populates a list of all employees of your company. You analyze code and find that the Web application page does not prevent exceptions from traveling to the browser. You need to ensure that the Web application page intercepts exceptions and presents an error message to the browser. What change should you suggest?

A. Add the following code segment to the Web.config file.

```xml
<system.web>
  <compilation debug="true"/>
</system.web>
```

B. Add the following code segment to the page.

```vbscript
Protected Sub Page_Error(ByVal sender As Object, _ByVal e As System.EventArgs) Handles Me.Error
  Response.Redirect("error.aspx")
End Sub
```

C. Add the following code segment to the Web.config file.

```xml
<system.web>
  <customErrors mode="Off"/>
</system.web>
```

D. Change the Load event handler to the following code segment.

```vbscript
Protected Sub Page_Load(ByVal sender As Object, _ByVal e As System.EventArgs) Handles Me.Load
  Try
    LoadEmployees()
  Catch
    Response.Redirect("error.aspx")
  End Try
End Sub
```

Answer: B

14. You are creating a mobile Web Form that displays your company's logo. The Web Form contains the following image control.

```xml
<mobile:Image ID="ImageLogo" runat=server ImageURL="logo-bw.gif">
</mobile:Image>
```

You need to display the logo in black and white on devices that do not support color. In addition, you need to display the logo in color on devices that support color. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

A. Add a method to the code-behind file named isColor. Ensure that it returns a Boolean value and takes an instance of the MobileCapabilities class and a string.

B. Add a method to the code-behind file named isColor. Ensure that it uses the MobileCapabilities class and returns a string indicating the URL of the image to display.

C. Add the following code segment between your image control definition tags.

```xml
<DeviceSpecific>
  <Choice Filter="isColor" ImageURL="logo-color.gif"/>
</DeviceSpecific>
```

D. Add the following node to the deviceFilters element within the Web.config file.

```xml
<filter name="isColor" compare="IsColor" argument="true"/>
```

Answer: A,C

15. You create Web-based client applications. All Web-based applications are created by
using ASP.NET. Larger applications are hosted on Web server farms. The larger
applications appear to intermittently lose session state information for users. You
need to correct the problem. What should you do?

A. Add additional servers to the Web farm to accommodate load. Configure the entire Web
farm to reside in the same domain. Configure IIS on each server to have domain-level
administrative permissions.

B. Modify the Web.config file and set the mode attribute of the sessionState element to
InProc. Restart IIS on each associated Web server.

C. Modify the Web.config file and set the mode attribute of the sessionState element to
StateServer. Start the state service on each associated Web server.

D. Modify the Web.config file and set the mode attribute of the sessionState element to
None. Configure IIS on each Web server to make state information available to all servers
in the Web farm.

Answer: C

16. DRAG DROP
You are creating an application that provides information about the local computer.
The application contains a form that lists each logical drive along with the drive
properties, such as type, volume label, and capacity. You need to write a procedure
that retrieves properties of each logical drive on the local computer.

What should you do?
To answer, move the three appropriate actions from the list of actions to the answer
area and arrange them in the correct order.

Answer:

17. You create a Web site. The Web site has many predefined roles and associated
users that will be used for security purposes. You need to manage these roles and
user accounts. Which tool should you use?
A. the Microsoft .NET Framework Configuration tool
B. the Code Access Security Policy tool
C. the ASP.NET IIS Registration tool
D. the Web Site Administration Tool

Answer: D

18. Your Web site uses custom Themes. Your Web site must support additional Themes
based on the user’s company name. The company name is set when a user logs on
to the Web site. The company’s Theme name is stored in a variable named
ThemeName. You need to use this variable to dynamically set the Web site’s Theme.

What should you do?
A. Add the following code segment to the markup source of each page on the Web site.

```csharp
<%@ Page Theme="ThemeName" ... %>
```

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B. Add the following code segment to the Load event of each page on the Web site.

```csharp
Page.Theme = ThemeName
```

C. Add the following code segment to the PreInit event of each page on the Web site.

```csharp
Page.Theme = ThemeName
```

D. Add the following code segment to the Web site's configuration file. `<pages theme="ThemeName" />

Answer: C

19. You are using the Microsoft Visual Studio 2005 IDE to examine the output of a method that returns a string.

You assign the output of the method to a string variable named fName.

You need to write a code segment that prints the following on a single line:

- The message: "Test Failed: "The value of fName if the value of fName does not equal "John"
- You also need to ensure that the code segment simultaneously facilitates uninterrupted execution of the application. Which code segment should you use?

A. Debug.Assert(fName = "John", "Test Failed: ", fName)
B. Debug.WriteLineIf(fName <> "John", _ fName, "Test Failed")
C. If fName <> "John" Then Debug.Print("Test Failed: ") Debug.Print(fName)End If
D. If fName <> "John" Then Debug.WriteLine("Test Failed: ") Debug.WriteLine(fName)End If

Answer: B

20. You are creating a class that uses unmanaged resources. This class maintains references to managed resources on other objects. You need to ensure that users of this class can explicitly release resources when the class instance ceases to be needed. Which three actions should you perform? (Each correct answer presents part of the solution. Choose three.)

A. Define the class such that it inherits from the WeakReference class.
B. Define the class such that it implements the IDisposable interface.
C. Create a class destructor that calls methods on other objects to release the managed resources.
D. Create a class destructor that releases the unmanaged resources.
E. Create a Dispose method that calls System.GC.Collect to force garbage collection.
F. Create a Dispose method that releases unmanaged resources and calls methods on other objects to release the managed resources.

Answer: B,D,F
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