



70-515

(TS: Web Applications Development with Microsoft .NET Framework 4)

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Question: 1

You are creating an ASP.NET Web site. The site has a master page named Custom.master. The code-behind file for Custom.master contains the following code segment.

```
Partial Public Class Custom
Inherits System.Web.UI.MasterPage
Public Property Region As String
Protected Sub Page_Load(ByVal sender As Object,
ByVal e As System.EventArgs) Handles Me.Load
End Sub
End Class
```

You create a new ASP.NET page and specify Custom.master as its master page.

You add a Label control named lblRegion to the new page.

You need to display the value of the master pages Region property in lblRegion.

What should you do?

- A. Add the following code segment to the Page_Load method of the page code-behind file. Dim custom As Custom = Me.Parent lblRegion.Text = custom.Region
- B. Add the following code segment to the Page_Load method of the page code-behind file. Dim custom As Custom = Me.Master lblRegion.Text = custom.Region
- C. Add the following code segment to the Page_Load method of the Custom.Master.vb code-behind file. Dim lblRegion As Label = Page.FindControl("lblRegion") lblRegion.Text = Me.Region
- D. Add the following code segment to the Page_Load method of the Custom.Master.vb code-behind file. Dim lblRegion As Label = Master.FindControl("lblRegion") lblRegion.Text = Me.Region

Answer: B

Question: 2

You have created an ASP.NET server control named ShoppingCart for use by other developers. Some developers report that the ShoppingCart control does not function properly with ViewState disabled. You want to ensure that all instances of the ShoppingCart control work even if ViewState is disabled. What should you do?

- A. Require developers to set EnableViewStateMac to true.
- B. Store state in ControlState instead of ViewState.
- C. Serialize the state into an Application state entry called "MyControl".
- D. Require developers to change the session state mode to SQLServer.

Answer: B

Question: 3

You are implementing an ASP.NET Web site that will be accessed by an international audience. The site contains global and local resources for display elements that must be translated into the language that is selected by the user. You need to ensure that the Label control named lblCompany displays text in the users selected language from the global resource file. Which control markup should you use?

- A. <asp:Label ID="lblCompany" runat="server" meta:resourcekey="lblCompany" />
- B. <asp:Label ID="lblCompany" runat="server" Text="meta:lblCompany.Text" />
- C. <asp:Label ID="lblCompany" runat="server" Text="<%\$ Resources:lblCompanyText %>" />
- D. <asp:Label ID="lblCompany" runat="server" Text="<%\$ Resources:WebResources, lblCompanyText %>" />

Answer: D

Question: 4

You are developing an ASP.NET Web page that contains input controls, validation controls, and a button named btnSubmit.

The page has the following code-behind. (Line numbers are included for reference only.)

```
01 Public Class _Default
02 Inherits System.Web.UI.Page
03
04 Protected Sub SaveToDatabase()
05
06 End Sub
07
08 Protected Sub btnSubmit_Click(ByVal sender As Object,
09 ByVal e As EventArgs) Handles btnSubmit.Click
10
11 End Sub
12
13 End Class
```

You need to ensure that all data that is submitted passes validation before the data is saved in a database. What should you do?

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- A. Add the following method override. Protected Overrides Sub OnInit(ByVal e As EventArgs) MyBase.OnInit(e) If (Page.IsValid) Then Me.SaveToDatabase() End Sub
- B. Add the following method override. Protected Overrides Sub OnLoad(ByVal e As EventArgs) MyBase.OnLoad(e) If (Page.IsValid) Then Me.SaveToDatabase() End Sub
- C. Add the following method override. Protected Overrides Sub OnPreRender(ByVal e As EventArgs) MyBase.OnPreRender(e) If (Page.IsValid) Then Me.SaveToDatabase() End Sub
- D. Add the following code segment at line 10. If (Page.IsValid) Then Me.SaveToDatabase()

Answer: D

Question: 5

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 directives VaryByControl attribute to the ID of the GridView control.

Answer: B

Question: 6

You are developing an ASP.NET Web application. You create a master page. The master page requires a region where you can add page-specific content by using the ASP.NET page designer. You need to add a control to the master page to define the region. Which control should you add?

- A. Content
- B. ContentPlaceholder
- C. Placeholder
- D. Substitution

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 SQLServer 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: 10

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 Sub Page_Load(ByVal sender As Object,  
ByVal e As System.EventArgs) Handles Me.Load  
Dim s As String = Master.CityName  
End Sub
```

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: 11

You create a new ASP.NET MVC 2 Web application. The following default routes are created in the Global.asax.vb file. (Line numbers are included for reference only.)

```
01 Shared Sub RegisterRoutes(ByVal routes As RouteCollection) 02 03
routes.IgnoreRoute("{resource}.axd/{*pathInfo}") 04 05 routes.MapRoute( "Default",
"{controller}/{action}/{id}", New With {.controller = "Home", .action = "Index", .id = ""} )
06 End Sub
```

You implement a controller named HomeController that includes methods with the following signatures.

```
Function Index() As ActionResult
Function Details(ByVal id As Integer) As ActionResult
Function DetailsByUsername( ByVal username As String) As ActionResult
```

You need to add a route to meet the following requirements.

What should you do?

- A. Replace line 05 with the following code segment. `routes.MapRoute("Default", "{controller}/{action}/{id}", New With {.controller = "Home", .action = "DetailsByUsername", .id = ""})`
- B. Replace line 05 with the following code segment. `routes.MapRoute("Default", "{controller}/{action}/{username}", New With {.controller = "Home", .action = "DetailsByUsername", .username = ""}, New With {.username = "\w{3,20}"})`
- C. At line 04, add the following code segment. `routes.MapRoute("Details by Username", "{username}", New With {.controller = "Home", .action = "DetailsByUsername"}, New With {.username = "\w{3,20}"})`
- D. At line 04, add the following code segment. `routes.MapRoute("Details by Username", "{id}", New With {.controller = "Home", .action = "DetailsByUsername"}, New With {.id = "\w{3,20}"})`

Answer: C

Question: 12

You are implementing an ASP.NET MVC 2 Web application that contains several folders. The Views/Shared/DisplayTemplates folder contains a templated helper named Score.ascx that performs custom formatting of integer values.

The Models folder contains a class named Player with the following definition.

```
Public Class Player
```

```
Public Property Name As String
```

```
Public Property LastScore As Integer Public Property HighScore As Integer
```

```
End Class
```

You need to ensure that the custom formatting is applied to LastScore values when the HtmlHelper.DisplayForModel method is called for any view in the application that has a model of type Player.

What should you do?

- A. Rename Score.ascx to LastScore.ascx.
- B. Move Score.ascx from the Views/Shared/DisplayTemplates folder to the Views/Player/DisplayTemplates folder.
- C. Add the following attribute to the LastScore property. <UIHint("Score")>
- D. Add the following attribute to the LastScore property. <Display(Name:="LastScore", ShortName:="Score")>

Answer: C

Question: 13

You are implementing an ASP.NET MVC 2 application. In the Areas folder, you add a subfolder named Product to create a single project area. You add files named ProductController.vb and Index.aspx to the appropriate subfolders. You then add a file named Route.vb to the Product folder that contains the following code. (Line numbers are included for reference only.)

```
01 Public Class Route
    Inherits AreaRegistration
03 Public Overrides ReadOnly Property AreaName As String
04 Get
05 Return "product" 06 End Get
07 End Property
08
09 Public Overrides Sub RegisterArea(
    ByVal context As AreaRegistrationContext)
10
11 context.MapRoute("product_default",
    "product/{controller}/{action}/{id}",
    New With {.controller = "Product", .action = "Index",
    .id = ""})
12
13 End Sub
End Class
```

When you load the URL `http://<applicationname>/product`, you discover that the correct page is not returned.

You need to ensure that the correct page is returned.

What should you do?

- A. Replace line 11 with the following code segment. `context.MapRoute("product_default", "{area}/{controller}/{action}/{id}", New With {.area = "product", .controller = "Product", .action = "Index", .id = ""})`
- B. Replace line 11 with the following code segment. `context.MapRoute("product_default", "{area}", New With {.controller = "Product", .action = "Index", .id = ""})`
- C. Add the following code segment at line 12. `AreaRegistration.RegisterAllAreas()`
- D. Add the following code segment to the RegisterRoutes method in the Global.asax.vb file. `AreaRegistration.RegisterAllAreas()`

Answer: D

Question: 14

You are implementing an ASP.NET MVC 2 Web application that contains the following class.

```
Public Class DepartmentController Inherits Controller
Shared departments As List(Of Department) = New List(Of Department)
Function Index() As ActionResult Return View(departments) End Function
Function Details(ByVal id As Integer) As ActionResult Return
View(departments.Find(Function(x) x.ID = id)) End Function
Function ListEmployees(ByVal d As Department) As ActionResult Dim employees As List(Of
Employee) = GetEmployees(d) Return View (employees)
End Function
End Class
```

You create a strongly typed view that displays details for a Department instance. You want the view to also include a listing of department employees.

You need to write a code segment that will call the ListEmployees action method and output the results in place.

Which code segment should you use?

- A. `<%= Html.Action("ListEmployees", Model) %>`
- B. `<%= Html.ActionLink("ListEmployees", "Department", "DepartmentController") %>`
- C. `<% Html.RenderPartial("ListEmployees", Model) %>`
- D. `<%= Html.DisplayForModel("ListEmployees") %>`

Answer: A

Question: 15

You are developing an ASP.NET MVC 2 Web application. A page makes an AJAX request and expects a list of company names in the following format. ["Adventure Works", "Contoso"] You need to write an action method that returns the response in the correct format. Which type should you return from the action method?

- A. AjaxHelper
- B. XDocument
- C. JsonResult
- D.DataContractJsonSerializer

Answer: C

Question: 16

You are developing an ASP.NET MVC 2 Web application. The application contains a controller named HomeController, which has an action named Index. The application also contains a separate area named Blog. A view within the Blog area must contain an ActionLink that will link to the Index action of the HomeController. You need to ensure that the ActionLink in the Blog area links to the Index action of the HomeController. Which ActionLink should you use?

- A. Html.ActionLink("Home", "Index", "Home")
- B. Html.ActionLink("Home", "Index", "Home", New With {.area = ""}, Nothing)
- C. Html.ActionLink("Home", "Index", "Home", New With {.area = "Blog"}, Nothing)
- D. Html.ActionLink("Home", "Index", "Home", New With {.area = "Home"}, Nothing)

Answer: B

Question: 17

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. Function Info () As ActionResult Return View() End Function

- B. Add the following method to the CompanyController class. Function Company_Info() As ActionResult Return View() End Function
- 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 Add View to create a view for the action.

Answer: A,D

Question: 18

You are creating an ASP.NET Web site. You create a HTTP module named CustomModule, and you register the module in the web.config file. The CustomModule class contains the following code.

Public Class CustomModule

Implements IHttpModule

Dim footerContent As String = "<div>Footer Content</div>"

Public Sub Dispose() Implements IHttpModule.Dispose

End Sub End Class

You need to add code to CustomModule to append the footer content to each processed ASP.NET page.

Which code segment should you use?

- A.

```
Public Sub New(ByVal app As HttpApplication) AddHandler app.EndRequest, AddressOf app_EndRequest End Sub Sub app_EndRequest(ByVal sender As Object, ByVal e As EventArgs) Dim app As HttpApplication = TryCast(sender, HttpApplication) app.Response.Write(footerContent) End Sub
```
- B.

```
Public Sub Init(ByVal app As HttpApplication) _ Implements IHttpModule.Init AddHandler app.EndRequest, AddressOf app_EndRequest End Sub Sub app_EndRequest(ByVal sender As Object, ByVal e As EventArgs) Dim app As HttpApplication = New HttpApplication() app.Response.Write(footerContent) End Sub
```
- C.

```
Public Sub New() Dim app As HttpApplication = New HttpApplication() AddHandler app.EndRequest, AddressOf app_EndRequest End Sub Sub app_EndRequest(ByVal sender As Object, ByVal e As EventArgs) Dim app As HttpApplication = TryCast(sender, HttpApplication) app.Response.Write(footerContent) End Sub
```
- D.

```
Public Sub Init(ByVal app As HttpApplication) _ Implements IHttpModule.Init AddHandler app.EndRequest, AddressOf app_EndRequest End Sub Sub app_EndRequest(ByVal sender As Object, ByVal e As EventArgs) Dim app As HttpApplication = TryCast(sender, HttpApplication) app.Response.Write(footerContent) End Sub
```

Answer: D

Question: 19

You are implementing an ASP.NET Web site. The root directory of the site contains a page named Error.aspx. You need to display the Error.aspx page if an unhandled error occurs on any page within the site. You also must ensure that the original URL in the browser is not changed. What should you do?

- A. Add the following configuration to the web.config file. `<system.web> <customErrors mode="On"> <error statusCode="500" redirect="~/Error.aspx" /> </customErrors> </system.web>`
- B. Add the following configuration to the web.config file. `<system.web> <customErrors redirectMode="ResponseRewrite" mode="On" defaultRedirect="~/Error.aspx" /> </system.web>`
- C. Add the following code segment to the Global.asax file. `Sub Application_Error(ByVal sender As Object, ByVal e As EventArgs) Response.Redirect("~/Error.aspx") End Sub`
- D. Add the following code segment to the Global.asax file. `Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load Server.Transfer("~/Error.aspx") End Sub`

Answer: B

Question: 20

You are implementing an ASP.NET Web application. Users will authenticate to the application with an ID. The application will allow new users to register for an account. The application will generate an ID for the user based on the users full name. You need to implement this registration functionality. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Configure the SqlMembershipProvider in the web.config file.
- B. Configure the SqlProfileProvider in the web.config file.
- C. Create an ASP.NET page that contains a default CreateUserWizard control to create a new user account.
- D. Create an ASP.NET page that contains a custom form that collects the user information and then uses the Membership.CreateUser method to create a new user account.

Answer: A,D

Question: 21

**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. Select the Treat all warnings as errors option 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

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