Question 1
A company uses SharePoint for document sharing and collaboration. Users create content types for different types of documents that are created daily. All document content types have ProjectID, Type, and AuditStatus columns. ProductID is not a required field. The Auditing department requires that every document have a ProjectID within two weeks of the creation date. If a document does not have a ProjectID, the AuditStatus column must show a message for users to specify the ProjectID. For performance reasons, fewer than 50 documents at a time should be processed. You need to write a work-item timer job to meet the requirement. How should you complete the relevant code? (To answer, select the appropriate option from the drop-down list in the answer area.)

```csharp
public class MyWorkItemTimerJob : SPWorkItemJobDefinition
{
    public static readonly string WorkItemJobDisplayName = "Contoso Work Item Time Job";
    public static readonly Guid WorkItemTypeID = new Guid("4A559645-5E5E-44F3-9523-5CB43D5C0A89");
    public MyWorkItemTimerJob()
    {
    }

    public override string DisplayName
    {
        return WorkItemJobDisplayName;
    }

    private bool IsTwoWeeksOldNow(SPLISTItem anItem)
    {
        return true;
    }
}
```
Question 2
You create a new Enterprise Content Management (ECM) project.
You add a content type to the Visual Studio Project by using the Content Type Designer in Visual Studio 2012.
What will the designer-generated XML look like? (To answer, drag the appropriate XML elements to the correct location or locations in the answer area. Each XML element 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:

Correct Answer:
Question 3
You work on a SharePoint Enterprise Content Management (ECM) project. You develop the Litware Document Approval workflow that enables a group of people to review, approve, or reject documents and document changes.
You need to assign the Litware Document Approval workflow to the Document content type.
How should you complete the relevant code? (To answer, drag the appropriate code segments to the correct location or locations 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.)

Correct Answer:
Question 4
You develop a SharePoint-hosted app that is used by internal users to read and write data. The app has the following requirements:
- The app must be able to find and display the products that are purchased most often by customers.
- The app must be able to read product information from a custom SQL Server database by using an external list.
- The app must be able to read from and write to the user profile.
- The app must be able to make changes to lists by using the minimum permissions necessary.
- The app must be able to read enterprise keywords.

You need to configure permissions for the app.
Which scopes and permissions should you use? (To answer, select the appropriate options from each drop-down list in the answer area.)
Question 5
You create SharePoint apps for multiple clients. Each client has a unique environment with specific requirements. You need to choose the appropriate hosting location for each app. What should you do? (To answer, drag the appropriate hosting options to the correct description in the answer area. Each hosting option 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:

<table>
<thead>
<tr>
<th>Hosting Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autohosted</td>
<td>App needs to be written by using HTML, JavaScript, and PHP that accesses a MySQL database.</td>
</tr>
<tr>
<td>Provider-hosted</td>
<td>Load balancing, multi-tenancy, and maintenance will be handled by Windows Azure.</td>
</tr>
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<td>SharePoint-hosted</td>
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<td>SharePoint-hosted</td>
<td>App will be written by using HTML, JavaScript, and Web Parts.</td>
</tr>
<tr>
<td>Provider-hosted</td>
<td>App will run on a third-party web hosting service with an ASP.NET platform.</td>
</tr>
</tbody>
</table>
**Question 6**
Adventure Works uses SharePoint for managing project-related documents, information sharing, and tasks management. You develop a SharePoint-hosted app named TasksViewer and deploy it to the Corporate Catalog Site. This app is used only by the Project Management Office (PMO) group. Only users in the PMO group have permission to view and add this app to various project sites. The Adventure Works IT department creates a security group in Active Directory for the PMO. Currently all of the apps are visible to the Everyone group.
You need to ensure that only users in the PMO group can see the app.
Which five actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)

Select and Place:

Correct Answer:

**Explanation/Reference:**

**Question 7**
You create an Enterprise Content Management (ECM) project. You write .NET client-side object model (CSOM) code to create a navigation term set in an existing term store to use in a taxonomy-based navigation.
You need to complete the code to get a reference to the term store.
How should you complete the relevant code? (To answer, drag the appropriate code segment to the correct location or locations 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:
Question 8
You have an app named TaskManager published at http://sharepoint.contoso.com/apps. You need to remove the app and ensure that users will no longer be able to use the app by using Windows PowerShell cmdlets. What should you do? (To answer, drag the appropriate code segments to the correct location or locations 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:
Question 9
You troubleshoot the sandbox solutions that your team builds. You need to redeploy a sandbox solution. You also need to identify which process must be debugged. Where should you redeploy the solution, and which process should you debug? (To answer, drag the appropriate statements to the correct location or locations in the answer area. Each statement 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:

Correct Answer:

<table>
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<tr>
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<th>Solution Gallery</th>
<th>Central Administration</th>
<th>SPUCWorkerProcess.exe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process to debug</td>
<td>Location where the solution is deployed</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Explanation/Reference:

Question 10
You add a site column for an Enterprise Content Management (ECM) project by using the Site Column Designer in Visual Studio 2012. What will the designer-generated XML look like? (To answer, drag the appropriate XML elements to the correct location or locations in the answer area. Each XML element 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:

Correct Answer:

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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Explanation/Reference:
Question 11
You have a SharePoint site with one site collection and several subwebs. You develop a feature that installs an event receiver on a list. The event receiver must send a notification by email when information is modified. Not all subwebs require this functionality.
You need to set the feature scope.
From the Add New Feature dialog window, which scope should you use? (To answer, select the appropriate scope in the answer area.)
**Question 12**
You create a cloud-hosted SharePoint app. You must make the app available in the SharePoint Store for customers to install on their host webs. You need to keep the style and navigation of the app the same as the host web of the app after it is installed by any customer. What should you do?

A. Add a reference to SP.UI.Controls.js on the host web. Pass the AppUrl parameter to the host web. Apply branding to the host web.
B. Copy the CSS file from the app to the host web. Run the Chrome control to convert the CSS file to the host web format. Apply the styles contained in the CSS file to the host web.
C. Use a Chrome control to find the differences in the styles between the host web and the app. Resolve all of the differences by using JavaScript.
D. Add a reference to the SP.UI.Controls.js file located in the new /_layouts/15 directory. Pass the HostUrl parameter to the start page of the app. Use the Chrome control in JavaScript.

Correct Answer: B

**Explanation/Reference:**

**Question 13**
Adventure Works uses a web design firm to design the user interface for an upcoming toy sales website, www.toys.adventureworks.com. The website is built by using a SharePoint publishing template. Adventure Works must implement the newly designed user interface for the site. The design firm provides a set of HTML, CSS, and JavaScript files. You need to create and publish a SharePoint master page by using the supplied files. What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

A. From the Master Pages section in SharePoint Designer, select Create New Master Page and then replace the master page contents with the contents of the HTML file.
B. From SharePoint Designer, open the master page gallery. Right-click the new master page and then select Set as Default Master.
C. From the Design Manager, map a network drive to the /_layouts/masterpage/ folder. Then, in Windows Explorer, copy all the UI elements provided by the design team to the network share.
D. From the Edit Master Page section in Design Manager, select Convert an HTML File to a SharePoint Master Page to generate a master page from the HTML file provided by designer firm.
E. Publish the master page. Then, from Site Settings, choose the Look and Feel section, and then select Master Page. Choose the master page and select OK.
F. Preview the master page and select Snippets to get HTML segments of the SharePoint top navigation, quick launch, and body. Then, edit the master page by using Microsoft Notepad and replace the HTML with the new segments.

Correct Answer: BDE
D. Not A: To convert the HTML file into a master file
1. Browse to your publishing site.
2. In the upper-right corner of the page, choose Settings, and then choose Design Manager.
3. In Design Manager, in the left navigation pane, choose Edit Master Pages.
4. Choose Convert an HTML file to a SharePoint master page.
5. In the Select an Asset dialog box, browse to and select the HTML file that you want to convert.

**Question 14**
You need to retrieve data about all the lists in a site by using the REST (Representational State Transfer) API. Which code segment should you use?

A. string siteUrl = "http://server/sites/site";
   HttpWebRequest endpointRequest = (HttpWebRequest)HttpWebRequest.Create(siteUrl.ToString() + "/_api/web/AllLists");
   endpointRequest.Credentials = new NetworkCredential("userid", "password", "domain");
   endpointRequest.Method = "GET";
   endpointRequest.Accept = "application/json;odata=verbose";
   HttpWebResponse endpointResponse = (HttpWebResponse)endpointRequest.GetResponse();

B. string siteUrl = "http://server/sites/site";
   HttpWebRequest endpointRequest = (HttpWebRequest)HttpWebRequest.Create(siteUrl.ToString() + "/_api/web/lists");
   endpointRequest.Credentials = new NetworkCredential("userid", "password", "domain");
   endpointRequest.Method = "POST";
   endpointRequest.Accept = "application/json;odata=verbose";
   HttpWebResponse endpointResponse = (HttpWebResponse)endpointRequest.GetResponse();

C. string siteUrl = "http://server/sites/site";
   HttpWebRequest endpointRequest = (HttpWebRequest)HttpWebRequest.Create(siteUrl.ToString() + "/_api/web/lists");
   endpointRequest.Credentials = new NetworkCredential("userid", "password", "domain");
   endpointRequest.Method = "GET";
   endpointRequest.Accept = "application/json;odata=verbose";
   HttpWebResponse endpointResponse = (HttpWebResponse)endpointRequest.GetResponse();

D. string siteUrl = "http://server/sites/site";
   HttpWebRequest endpointRequest = (HttpWebRequest)HttpWebRequest.Create(siteUrl.ToString() + "/vti_bin/web/lists");
   endpointRequest.Credentials = new NetworkCredential("userid", "password", "domain");
   endpointRequest.Method = "GET";
   endpointRequest.Accept = "application/json;odata=verbose";
   HttpWebResponse endpointResponse = (HttpWebResponse)endpointRequest.GetResponse();

A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: C
Explanation/Reference:

**Question 15**
Adventure Works uses a SharePoint publishing site to host their public-facing website at http://www.adventureworks.com. The website gives external users the ability to register and sign in to the site to buy Adventure Works products.

You notice that publicly registered users see the SharePoint ribbon. You need to ensure that the SharePoint ribbon is available only to content authors and administrators.

What should you do?

A. Open the current site master page in SharePoint Designer, place the SharePoint:SPSecurityTrimmedControl control around the div tag with the s4-ribbonrow ID. Set the PermissionsString to ManageSubWeb.
B. Open the current site master page in SharePoint Designer, find a div tag with the s4-ribbonrow ID, and then remove all of the contents of the div.
C. Open the current site master page in SharePoint Designer and then place the SharePoint:SPSecurityTrimmedControl control around the div tag with the 34-ribbonrow ID. Set the PermissionsString to AddAndCustomizePages.
D. In the SharePoint project, add an Empty Element and then use the <HideCustomAction> tag to hide the ribbon.

Correct Answer: B
Explanation/Reference:
Question 16
Adventure Works uses a SharePoint publishing site to host their public-facing website at http://www.adventureworks.com. The website gives external users the ability to register and sign in to the site to buy Adventure Works products.
You notice that publicly registered users see the SharePoint ribbon. You need to ensure that the SharePoint ribbon is available only to content authors and administrators.
What should you do?

A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: B
Explanation/Reference:

Question 17
A company uses SharePoint for internal collaboration. SharePoint is deployed on a server farm with a single front-end server, a single application server, and a dedicated database server. You review existing Web Parts that read from and write to SharePoint lists. You find the following code in one of the utility classes and notice memory leaks in the method.

```csharp
private void ChangeSiteDescription(string SiteUrl, string newSiteDescription)
{
    SPSite siteCollection = null;
    try
    {
        siteCollection = new SPSite(SiteUrl);
        using (SPWeb site = siteCollection.RootWeb)
        {
            site.Description = newSiteDescription;
            site.Update();
        }
    }
    catch (Exception)
    {
        siteCollection.Close();
    }
}
```

You need to ensure that there are no memory leaks in the method.
What should you do?

A. Add a finally statement and include site.Dispose ()
B. Add site.Dispose() to the catch statement.
C. Add a finally statement and include siteCollection.Dispose ();
D. Add siteCollection.Dispose() to the catch statement.
Correct Answer: C
Explanation/Reference:

**Question 18**
A user deploys a sandbox solution.
The user cannot activate the solution.
You need to ensure that the user can activate the solution. What should you do? (Each correct answer presents a complete solution. Choose all that apply.)

A. Grant permission to the user to execute the solution.
B. Grant permission to the user to activate the solution.
C. Start the Microsoft SharePoint Foundation Sandboxed Code Service.
D. Start the PerformancePoint Services.

Correct Answer: AC
Explanation/Reference:
C: go into Central Administration and navigate to System Settings > Manage Services on Server and start the "Microsoft SharePoint Foundation Sandboxed Code Service" service.

**Question 19**
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:

Correct Answer:

Explanation/Reference:

**Question 20**
You are developing an ASP.NET MVC web application in Visual Studio 2012.
The application has a model named ReservationLocation that contains properties named City and State.
The view that displays reservations has a single text box named loc for entering the location information. The location is entered as city, state.
There are action methods that have ReservationLocation as a parameter type. You need to ensure that the City and State properties are correctly populated.

How should you implement model binding for the ReservationLocation type? (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:

```csharp
bindingContext.ModelType = typeof (ReservationLocation);
var raw = bindingContext.ValueProvider.GetValue ("loc");
dynamic data = bindingContext.ValueProvider.GetValue ("loc");
dynamic data = raw.RawValue.ToString().Split(',');
bindingContext.ModelState.Add("city,state", new ModelState { Value = data });
dynamic data = controllerContext.RouteData.Values[raw + "[city,state]"]; public class ReservationModelBinder : IModelBinder {
    public object BindModel(ControllerContext controllerContext, ModelBindingContext bindingContext) {
    [...]
    return new ReservationLocation;
```
Question 21
You are developing an ASP.NET MVC application that has pages for users who browse the site with Windows Phone 7. The pages for Windows Phone 7 include the following files:
- _Layout.WP7.cshtml
- Index.WP7.cshtml
You need to update the application so that it renders the customized files correctly to Windows Phone 7 users. How should you update the Application_Start method? (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:

Correct Answer:
Question 22

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

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

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

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

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:
Question 23
You are developing an ASP.NET MVC application that authenticates a user by using claims-based authentication.
The application must:
1. Use Windows Identity Foundation 4.5.
2. Support the Windows Azure Access Control Service.
You need to implement authentication.
How should you build the class constructor? (To answer, select the appropriate option from the drop-down list in the answer area.)

```csharp
using Microsoft.IdentityModel.Claims;

public class IdentityClaim
{
    private string _identityProvider;
    private string _identityValue;
    public const string ACSProviderClaim = "http://schemas.microsoft.com/accesscontrolservice/...;"

    public IdentityClaim(
        [IdentityProvider] identity)
    {
        if (identity != null)
        {
            foreach (var claim in identity.Claims)
            {
                if (claim, [NameIdentifier] == [NameIdentifier])
                {
                    _identityValue = claim.Value;
                }
                if (claim, [ACSPublisher] == ACSProviderClaim)
                {
                    _identityProvider = claim.Value;
                }
            }
        }
    }
}
```
using Microsoft.IdentityModel.Claims;

public class IdentityClaim
{
    private string _identityProvider;
    private string _identityValue;
    public const string ACSProviderClaim = "http://schemas.microsoft.com/accesscontrolservice/";

    public IdentityClaim(
        [NameIdentifier]
    )
    {
        if (identity != null)
        {
            foreach (var claim in identity.Claims)
            {
                if (claim.
                _identityValue = claim.Value;
            }
            if (claim.
                if (claim.
        }
    
    Correct Answer:
Question 24
You are developing an ASP.NET MVC application.
You need to store membership information in a Microsoft SQL Server database.
How should you configure the membership provider? (To answer, select the appropriate options in the answer area.)
You are developing an ASP.NET MVC web application that enables users to open Microsoft Excel files. The current implementation of the ExcelResult class is as follows.

```csharp
public class ExcelResult : ActionResult
{
    public string Path { get; set; }

    public override void ExecuteResult(ControllerContext context)
    {
        ... 
    }
}
```

You need to enable users to open Excel files.

How should you implement the ExecuteResult method? (To answer, select the appropriate options in the answer area.)
```javascript
var response = context.HttpContext.Response;
var request = context.HttpContext.Request;

if (canProcess)
{
    response.Clear();
}
```

```
var canProcess = request.AcceptTypes.Contains("application/vnd.ms-excel");
var canProcess = request.ContentType.Contains("application/vnd.ms-excel");

if (canProcess)
{
    response.Clear();
    response.AddHeader("content-disposition", "attachment; filename=dl");
    response.ContentType = "application/vnd.ms-excel";
    response.ContentEncoding = new UTF8Encoding;
}
```

```
if (canProcess)
{
    response.Clear();
    response.AddHeader("content-disposition", "attachment; filename=dl");
    response.ContentType = "application/vnd.ms-excel";
    response.ContentEncoding = new UTF8Encoding;
}
```
Question 26
Contoso uses a SharePoint site that contains subsites. Each subsite represents different projects. Each project site is based on a team site template and stores information and documents. Contoso has five teams: Manufacturing, Sales, Administration, Marketing, and IT. You must create a different look and feel for each team site such that any visitor to the site can identify the team by looking at the colors, fonts, and background image of the site. You need to create a different look and feel for each team. What should you do? (Each correct answer presents part of the complete solution. Choose all that apply.)

A. Open Contoso Corporate Microsoft PowerPoint Slides Template, save the template as ContosoCorporate.master, and then upload it to the Theme Gallery.
B. From SharePoint Designer, go to Content Types. Right-click and select Content Type Settings.
C. Get a site background image for each team and upload it to the site collection images library. Then create a new master page for each team site by using the Master Page Gallery. Set the version to 15.
D. From the Web Designer Galleries, choose Composed Looks and create a new item for each team site. Specify the title, URL of the master page, theme, background image, and font schema file.
E. On the Site Settings page in the Look and Feel section, choose Change the look.
F. Create a new font XML schema with a font specification for each team.

Correct Answer: BCD
Explanation/Reference:
B: * Content types enable site users to quickly create specialized kinds of content by using the New Item or New Document command in a list or library. Content types provide site owners a way to make sure that that content is consistent across sites. Site owners can pre-configure specific details about the content when they set up content types for a site, list, or library.
D: * A Composed Look is made up of: Master Pages
CSS
Color palettes Font palettes Background image

Question 27
You are designing an HTML5 website. You need to design the interface such that the content is viewable in all types of browsers, including screen readers. What should you do? (Each correct answer presents a complete solution. Choose all that apply.)

A. Ensure that content elements have valid and descriptive names.
B. Use Resource Description Framework (RDF) to describe content elements.
C. Convert HTML forms to XForms.
D. Use HTML5 semantic markup elements.
E. Annotate content elements with Accessible Rich Internet Application (ARIA) attributes.

Correct Answer: DE
Explanation/Reference:

Question 28
You are developing an ASP.NET MVC application in Visual Studio 2012. The application supports multiple cultures. The application contains three resource files in the Resources directory:
. ProductDictionary.resx
. ProductDictionary.es.resx
. ProductDictionary.fr.resx
Each file contains a public resource named Currency with the localized currency symbol. The application is configured to set the culture based on the client browser settings. The application contains a controller with the action defined in the following code segment. (Line numbers are included for reference only.)

```csharp
01 public ActionResult GetProducts()
02 {
03   List<ProductModel> products = DataBase.DBAccess.GetProducts();
04   return View(products);
05 }
```

You need to set ViewBag.LocalizedCurrency to the localized currency contained in the resource files. Which code segment should you add to the action at line 04?


Correct Answer: A
Explanation/Reference:

Question 29
You are developing an ASP.NET MVC application.
You need to authenticate clients by using an ASP.NET membership database.
Which authentication method should you implement?

A. Kerberos  
B. Forms  
C. Basic  
D. Windows

Correct Answer: B

Explanation/Reference:

Question 30
You are developing an ASP.NET MVC application by using Visual Studio 2012. The application throws and handles exceptions when it runs. You need to examine the state of the application when exceptions are thrown. What should you do?

B. From the DEBUG menu in Visual Studio 2012, select Attach to Process. Select the IIS process.
D. From the TOOLS menu in Visual Studio 2012, click Customize. Click Commands tab and select Debug.

Correct Answer: A

Explanation/Reference:

Question 31
You are developing an ASP.NET MVC application that will be deployed on a web farm. Passwords must be stored in the web.config file and must not be readable or in a format that is easily decodable.

You need to encrypt the passwords that are stored in the web.config file. Which command-line tool should you use?

A. Aspnet_regiis.exe  
B. Ngen.exe  
C. Aspnet_merge.exe  
D. EdmGen.exe

Correct Answer: A

Explanation/Reference:  

Question 32
You are designing a distributed application.

The application must store a small amount of insecure global information that does not change frequently.

You need to configure the application to meet the requirements. Which server-side state management option should you use? (Each correct answer presents a complete solution. Choose all that apply.)

A. Application state  
B. Session state  
C. Database support  
D. Profile properties

Correct Answer: AC

Explanation/Reference:

Question 33
You are developing an ASP.NET MVC application. The application is deployed in a web farm and is accessed by many users. The application must handle web server failures gracefully. The servers in the farm must share the short-term state information. You need to persist the application state during the session.

What should you implement?

A. ASP.NET session state  
B. A local database  
C. A state server  
D. Profile properties

Correct Answer: C

Explanation/Reference:

Question 34
You are developing an ASP.NET MVC application that will be deployed to servers on multiple networks.

The application must be compatible with multiple browsers. You must track the page number that the user is viewing in search results. You need to
program the location for storing state information.  
Where should you persist state information?

A. Session  
B. QueryString  
C. Application  
D. TempData  

Correct Answer: B  
Explanation/Reference:

Question 35  
You are developing an ASP.NET MVC web application in Visual Studio 2012. The application requires several thousand content files. All content is hosted on the same IIS instance as the application.  
You detect performance issues when the application starts. You need to resolve the performance issues.  
What should you do?

A. Enable compression in IIS.  
B. Move the content to a second server.  
C. Combine the content files by using ASP.NET MVC bundling.  
D. Implement HTTP caching in IIS.  

Correct Answer: C  
Explanation/Reference:

Question 36  
You are developing an ASP.NET MVC application.  
You need to authenticate clients by using NT LAN Manager (NTLM).  
Which authentication method should you implement?

A. Basic  
B. Windows  
C. Forms  
D. Kerberos  

Correct Answer: B  
Explanation/Reference:  

Question 37  
You are developing an ASP.NET MVC application.  
The application must allow users to enter JavaScript in a feedback text box only.  
You need to disable request validation.  
What should you do?

A. Apply and set the CausesClientSideValidation attribute on the text box to FALSE.  
B. Apply and set the ValidateInput attribute on the text box to FALSE.  
C. Use the HttpRequest.Unvalidated property to read the unvalidated form value.  
D. Use the HttpRequest.Form property to read the unvalidated form value.  

Correct Answer: C  
Explanation/Reference:  
Provides access to HTTP request values without triggering request validation.  

Question 38  
You are designing a distributed application that runs on the Windows Azure platform. The application must store a small amount of insecure global information that does not change frequently.  
You need to configure the application to meet the requirements. Which server-side state management option should you use? (Each correct answer presents a complete solution. Choose all that apply.)

A. Windows Azure application state  
B. Sql Azure  
C. Profile properties of the Windows Azure application  
D. Windows Azure session state  

Correct Answer: BD  
Explanation/Reference:  
SQL Database provides a relational database management system for Windows Azure and is based on SQL Server technology. With a SQL Database instance, you can easily provision and deploy relational database solutions to the cloud, and take advantage of a distributed data center that provides enterprise-class availability, scalability, and security with the benefits of built-in data protection and self-healing.  
Session States in Windows Azure.
If you are a Web developer, you are probably very familiar with managing user state— that is you are familiar with tracking user activity and actions across several request-response exchanges that occur in Web applications. Since HTTP is a stateless protocol, developers over the years have developed all sorts of means to manage state. You’ll even find an MSDN page providing alternatives and recommendations for state management here. Cookies, hidden fields, and query strings are some client-side options to tracking user state. When it comes to managing that state on the server-side, most Web developers rely on session objects.

Question 39
You are developing an ASP.NET MVC web application for viewing a list of contacts. The application is designed for devices that support changes in orientation, such as tablets and smartphones. The application displays a grid of contact tiles in portrait mode. When the orientation changes to landscape, each tile in the grid expands to include each contact’s details. The HTML that creates the tiled interface resembles the following markup.

```html
<ul class="contacts">
  <li>
    <img src="..." />
    <div>Details</div>
  </li>
</ul>
```

The CSS used to style the tiles in landscape mode is as follows.

```css
ul.contacts > li {
  width: 150px;
}
ul.contacts > li > div {
  display: block;
}
```

If this CSS is omitted, the existing CSS displays the tiles in portrait mode. You need to update the landscape-mode CSS to apply only to screens with a width greater than or equal to 500 pixels. Which code segment should you use?

A. `@media screen and (width >= 500px) {`  
   `...`
B. `@media screen and (min-width: 500px) {`  
   `...`
C. `@media screen (min-width: 500px, max-width: 1000px) {`  
   `...`
D. `@media resolution (min-width: 500px) {`  
   `...`

Correct Answer: B
Explanation/Reference:
http://www.javascriptkit.com/dhtmltutors/cssmediaqueries.shtml

Question 40
You are developing an ASP.NET MVC application. The application is deployed in a web farm and is accessed by many users. The application must handle web server failures gracefully. The servers in the farm must share the state information.

You need to persist the application state during the session.
What should you implement?

A. A state server  
B. Cookieless sessions  
C. A web garden on the web servers  
D. An InProc session

Correct Answer: A
Explanation/Reference:

Question 41
You are developing an ASP.NET MVC application that displays stock market information. The stock market information updates frequently and must be displayed in real-time. You need to eliminate unnecessary header data, minimize latency, and transmit data over a fullduplex connection.

What should you do?

A. Implement long-running HTTP requests.  
B. Instantiate a MessageChannel object on the client.  
C. Implement WebSockets protocol on the client and the server.  
D. Configure polling from the browser.

Correct Answer: C
Explanation/Reference:
Question 42
You are developing an ASP.NET MVC news aggregation application that will be deployed to servers on multiple networks. The application must be compatible with multiple browsers. A user can search the website for news articles. You must track the page number that the user is viewing in search results. You need to program the location for storing state information about the user’s search. What should you do?
A. Store search results and page index in Session.
B. Use Application state to store search terms and page index.
C. Use QueryString to store search terms and page index.
D. Store search results and page index in TempData
Correct Answer: C
Explanation/Reference:

Question 43
You are developing an ASP.NET MVC application in Visual Studio 2012. The application supports multiple cultures. The application contains three resource files in the Resources directory:
 . My Dictionary.resx
 . MyDictionary.es.resx
 . MyDictionary.fr.resx
Each file contains a public resource named Title with localized translation. The application is configured to set the culture based on the client browser settings. The application contains a controller with the action defined in the following code segment. (Line numbers are included for reference only.)

```csharp
01 public ActionResult GetProducts()
02 {
04   List<ProductModel> products = DataBase.DBAccess.GetProducts();
05   return View(products);
06 }
```
You need to set ViewBag.Title to the localized title contained in the resource files. Which code segment should you add to the action at line 03?
C. ViewBag.Title = Resources.MyDictionary.Title;
D. ViewBag.Title = HttpContext.GetLocalResourceObject("MyDictionary", "Title");
Correct Answer: C
Explanation/Reference:

Question 44
You are testing an ASP.NET application. The test plan requires that tests run against the application’s business layer. You need to use the test project template that meets this requirement. Which template should you use?
A. Web Test Project
B. Load Test Project
C. Unit Test Project
D. Coded Test Project
Correct Answer: C
Explanation/Reference:

Question 45
You are authoring unit tests. The unit tests must test code that consumes sealed classes. You need to create, maintain, and inject dependencies in the unit tests. Which isolation method should you use?
A. T4 text templates and code generation
B. Stub types
C. Shim types
D. Hard-coded implementation
Correct Answer: C
Explanation/Reference:
Shim types are one of two technologies that the Microsoft Fakes Framework uses to let you easily isolate components under test from the environment. Shims divert calls to specific methods to code that you write as part of your test. Many methods return different results dependent on external conditions, but a shim is under the control of your test and can return consistent results at every call. This makes your tests much easier to write.
Question 46
You are developing an ASP.NET MVC web application that includes the following method.

```csharp
public double AccountBalance(double currentBalance, double transactionAmount)
{
    double finalBalance = 0.00;
    finalBalance = currentBalance + transactionAmount;
    return finalBalance;
}
```

You need to test the AccountBalance method.
Which unit test should you use?

A. Option A  
B. Option B  
C. Option C  
D. Option D

Correct Answer: C  
Explanation/Reference:

Question 47
You are developing an ASP.NET MVC application by using Visual Studio 2012. The application throws and handles exceptions when it runs. You need to examine the state of the application when exceptions are thrown. What should you do?

C. Add the following code to the Web.config file of the application.
   `<customErrors mode="On">`  
   `<error statusCode="500" redirect="CustomErrors.html"/>
</customErrors>`
D. Add the following code to the Web.config file of the application.
   `<customErrors mode="On">
   <error statusCode="404" redirect="CustomErrors.html"/>
   </customErrors>`

Correct Answer: A  
Explanation/Reference:

Question 48
You work for a company named Contoso, Ltd. that sells computer parts. You tag inventory lists by using a term set named Computer Parts Classification. The term set is structured as follows.

You must create a console application that accesses the SharePoint site and you must add a ClientContext object named ctx. You need to create a term named i7-2600K that is a child of the CPU node and add a shared property to the i7-2600K term. How should you complete the relevant code? (To answer, select the appropriate code segment from each drop-down list in the answer area.)
```javascript
var d = undefined;

ctx.Load(d, s => s.Include(t => t.Name));
ctx.ExecuteQuery();
var e = d.SingleOrDefault(x => x.Name == "CPU");
var f = e.CreateTerm("T7-2600K", 1033,
    
    f.IsAvailableForTagging = true;
    f.SetCustomProperty("Manufacturer", "Contoso");

Hot Area:

```
Question 49
You develop a .NET application named SPUserProfiles for a company called Contoso, Ltd.
SPUserProfiles communicates with a SharePoint app by using SharePoint Web Services. The SharePoint web service reference name is ProfileService. SPUserProfiles includes the following code segment: (Line numbers are included for reference only.)

```csharp
using SPUserProfiles.ProfileService;
namespace SPUserProfiles {
    class Program {
        public static UserProfileService svc = new UserProfileService();
        static void Main(string[] args) {
            UpdatePhoneNumber();
        }
    }
}
```

You need to implement the UpdatePhoneNumber method.
How should you complete the relevant code? (To answer, drag the appropriate code segments to the correct target locations 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:

```
new PropertyData[1];
new PropertyData();
new ValueData(1);
true;
false;
```

Correct Answer:

```
new PropertyData[1];
new PropertyData();
new ValueData[1];
true;
false;
```

Explanation/Reference:

Question 50
You develop a feature in a SharePoint solution by using Visual Studio 2012. You insert several breakpoints in the feature event receiver to debug performance issues.
You need to ensure that the code stops running when the solution reaches a breakpoint. Which three actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)

Select and Place:

<table>
<thead>
<tr>
<th>Answer Area</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Correct Answer:</strong></td>
</tr>
</tbody>
</table>

| Set the value of the project’s Active Deployment Configuration property to Default. |
| Add a registry key named EnableDiagnostics to the HKEY_CURRENT_USER\Software\Microsoft\VisualStudio\11.0\SharePointTools node of the registry, and then set the registry key value to 1. |
| Start to debug the SharePoint solution in Visual Studio. |
| Set the value of the project’s Active Deployment Configuration property to No Activation. |
| Manually activate the feature in SharePoint by using Site Settings. |

Explanation/Reference:

Note:
* Debugging Feature Event Receivers

By default, when you run a Visual Studio SharePoint application, its features are automatically activated for you on the SharePoint server. However, this causes problems when you debug feature event receivers, because when a feature is activated by Visual Studio, it runs in a different process than the debugger. This means that some debugging functionality, such as breakpoints, will not work correctly.

To disable the automatic activation of the feature in SharePoint and allow proper debugging of Feature Event Receivers, set the value of the project’s Active Deployment Configuration property to No Activation before debugging. Then, after you start to debug your SharePoint application in Visual Studio, manually activate the feature in SharePoint. To activate the feature, open the Site Actions menu in SharePoint, choose the Manage Site Features link, and then choose the Activate button next to the feature, to continue debugging as normal.

Reference: Debugging SharePoint Solutions

Question 51

You develop a SharePoint app by using the client-side object model (CSOM.) On each page of the app, you need to display the user profile picture for the user that is currently logged in. How should you complete the relevant code? (To answer, select the appropriate option from each drop-down list in the answer area.)
function sharePointReady() {
    context = new SP.ClientContext.get_current();
    getProfilePic();
}

var a;
var b;
function getProfilePic() {
    a = new SP.UserProfiles.
    b = a.getMyProperties();
    context.load(b);
    context.executeQueryAsync(function () {
        if (b) {
            var c = 
            $('#profilePic').attr('');
        }, onFail);
    }, onFail);
}

function sharePointReady() {
    context = new SP.ClientContext.get_current();
    getProfilePic();
}

var a;
var b;
function getProfilePic() {
    a = new SP.UserProfiles.
    b = a.getMyProperties();
    context.load(b);
    context.executeQueryAsync(function () {
        if (b) {
            var c = 
            $('#profilePic').attr('');
        }, onFail);
    }, onFail);

Correct Answer:
Question 52
You develop a SharePoint app that includes microblog posts and conversations for a company named Contoso, Ltd. You must use various programming object models to determine the number of unread mentions in microblog posts for the current user. You need to call methods for different programming object models. How should you create the method calls? (To answer, drag the appropriate code segments to the correct location or locations 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:

- GetMentions()
- getMentions()
- GetUnreadMentionCount()
- getUnreadMentionCount()
- GET https://www.contoso.com/api/social_feed/my/MentionFeed
- GET https://www.contoso.com/api/social_feed/my/UnreadMentionCount

Correct Answer:
You create term sets and multi-lingual labels for a site collection. The default locale, language, and culture for the term sets are set to English. You develop a console application to create labels for a term named Memory. The console application uses the English locale. You develop the following labels for the term named Memory.

<table>
<thead>
<tr>
<th>Culture</th>
<th>Default value</th>
<th>Synonyms</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>memory</td>
<td>storage</td>
</tr>
<tr>
<td>French</td>
<td>memoire</td>
<td>stockage</td>
</tr>
<tr>
<td>Italian</td>
<td>memoria</td>
<td>conservazione</td>
</tr>
<tr>
<td>Spanish</td>
<td>memoria</td>
<td>almacenamiento</td>
</tr>
<tr>
<td>German</td>
<td>speicher</td>
<td>lagerung</td>
</tr>
</tbody>
</table>

You need to create German labels for the term named Memory. How should you complete the relevant code? (To answer, select the appropriate code segment from each drop-down list in the answer area.)

```csharp
var d = c.GetAllTerms();
ctx.Load(d, s => s.Include(t => t.Name));
ctx.ExecuteQuery();
var e = d.SingleOrDefault(x => x.Name == "Memory");
e.CreateLabel("lagerung",
System.Globalization.CultureInfo.CreateSpecificCulture("de-DE").LCID,
true);
ctx.ExecuteQuery();
```

Hot Area:
Question 54
You develop a SharePoint app that uses the client-side object model (CSOM) to retrieve items from the search index. You need to implement the client-side query code. Which four code segments should you use in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)

Select and Place:
**Step 1:**
First we need to add the necessary references such as using Microsoft.SharePoint.Client;
using Microsoft.SharePoint.Client.Search;

**Step 2:**
Start by creating a ClientContext object and pass in the URL to a site. Put this in a using block. using (ClientContext clientContext = new
ClientContext("http://servername"))

**Step 3:**
We then need to create a KeywordQuery class to describe the query. This class is similar to the server side Key wordQuery class but there are some
differences. We pass the ClientContext into the constructor.

**Step 4:**
Unlike the server object model, with the Client OM we have to use another class, SearchExecutor, to send the queries to the search engine. We pass a
ClientContext to it as well:

Reference: How to: Query Search with the SharePoint 2013 Client Object Model

Question 55
A SharePoint app displays the following search results:
<table>
<thead>
<tr>
<th>Model</th>
<th>Color</th>
<th>Manufacture</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Red</td>
<td>Year 2010</td>
</tr>
<tr>
<td>A</td>
<td>Black</td>
<td>Year 2010</td>
</tr>
<tr>
<td>A</td>
<td>Red</td>
<td>Year 2011</td>
</tr>
<tr>
<td>B</td>
<td>Blue</td>
<td>Year 2010</td>
</tr>
<tr>
<td>B</td>
<td>Red</td>
<td>Year 2012</td>
</tr>
<tr>
<td>C</td>
<td>White</td>
<td>Year 2011</td>
</tr>
</tbody>
</table>

You have the following requirements:
- Group results by model.
- Display only two rows per model.
- Show a unique color for each model.

You need to define a query to meet the requirements.

How should you complete the relevant code? (To answer, select the appropriate code segment from each drop-down list in the answer area.)

```javascript
var query = new KeywordQuery(context) {
  QueryText = "Model:Year",
  Color: [],
};
```

**Hot Area:**

```javascript
var query = new KeywordQuery(context) {
  QueryText = "Model:Year",
  Color: [],
};
```

**Correct Answer:**

```javascript
var query = new KeywordQuery(context) {
  QueryText = "Model:Year",
  Color: [],
};
```

**Explanation/Reference:**

**Question 56**
You develop a SharePoint site by using the Team Site template. Users share large images by using the team site.

You need to configure the SharePoint site so that images render at a maximum size of 400px wide and 200px high.

Which three actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer).

Select and Place:
Correct Answer:

Enable the binary large object (BLOB) cache in the web.config file for the site. Enable publishing features for the site collection.

Create an image rendition that is 400px wide and 200px high.

Disable the binary large object (BLOB) cache in the web.config file of the site. Enable publishing features for the site collection.

Create a placeholder container that is 400px wide and 200px high in the master template.

Choose the configured rendition each time a new image needs to be rendered.

Explanation/Reference:

Note:

* (step 1) When using Image Rendition you will have to enable BLOBCache to improve performance. To enable BLOBCache:
Open Web.config file for the web application Locate BLOBCache line and set enabled = "true"
Set the folder path to another folder or keep the default c:BlobCache14 folder.

* (step 2)

* (step 3)

Edit the page and add an image to on the left. Select the image on the left
On the top bar, click on Image. Click on Pick Rendition. Choose the required setting to show the image.

QUESTION
Question 57
You develop a Microsoft Office app to access external data by using Business Connectivity Services (BCS). The app must access data from a Windows Communication Foundation (WCF) connector by using an external content type. Which four actions should you perform in a sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)

Select and Place:

Use the BDC model to query the client runtime for connection details.
Use the BDC model to pass the request for the required data to the WCF connector.
Provide credentials to the client runtime and store the credentials.
Use the client runtime to pass the request for data to the WCF connector.
From the Office app, generate a request for data and pass it to the BDC client runtime.
Use the BDC Client Runtime to query the BDC model for connection details and the credentials to use.

Correct Answer:
A BDC model is the heart of Business Data Connectivity (BDC) service. The data structures, such as Entity (external content type) and Method, that abstract out complex details about an external system are collectively named MetadataObjects and compose the BDC model. The BDC model for an external system is essentially an XML file.

Question 58
You develop a provider-hosted SharePoint app that retrieves and displays weather information from an external site. The site contains lists of temperatures for different cities.
You need to create a Representational State Transfer (REST) endpoint URL in the app to retrieve hourly temperatures for a specific city from the site.
How should you complete the relevant code? (To answer, drag the appropriate term to the correct location or locations in the answer area. Each term 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:

Correct Answer:

Explanation/Reference:
Question 59
You use Visual Studio to design a SharePoint solution for a company that sells wine to customers around the world. The solution must return the total number of cases sold per country. The solution also must allow employees to sort cases of wine that are returned. Employees must sort cases by country, date, and reason for the return. You need to configure the solution to meet the requirements. Which steps should you take? (Each correct answer presents part of the solution. Choose all that apply.)

A. Add a Refinement Web Part to the page.
B. Configure the query for the Content Search Web Part.
C. Add country as a property filter to the Search Results Web Part.
D. Add a Calendar Web Part to the page.

Correct Answer: ABC
Explanation/Reference:
A: From question:
- Employees must sort cases by country, date, and reason for the return.
* On the REFINERS tab, you can choose to limit returned results by adding preselected refiners to your query. You can specify that the search results that are returned in the Search Results Web Part should be limited to one or more values from the refiners. The list shows all managed properties that are enabled as refiners in the search schema.
B: The Search Results Web Part shows the search results of a query that was entered in a Search Box Web Part.
C: From question:
The solution must return the total number of cases sold per country.
Note:
- Use property filters to query the content of managed properties that are set to queryable in the search schema.

Question 60
You connect to a front-end web server in a SharePoint farm for a company named Contoso, Ltd. You start the SharePoint Management Shell by using an account that has administrator permissions for the user-profile store. You use Windows PowerShell to create a User Profile property. You add the profile type and sub type to the User Profile property. You run the following Windows PowerShell cmdlets:

How should you complete the relevant Windows PowerShell cmdlets? (To answer, drag the appropriate code segment to the correct location or locations 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:

Correct Answer:
**Question 61**
You configure eDiscovery for a SharePoint Online site collection. You need to configure permissions for eDiscovery users so that users are able to access all discoverable content. What should you do?

A. Add eDiscovery users to the Viewers group for the eDiscovery center.
B. Grant eDiscovery users access to all content in each web application.
C. Grant eDiscovery users Contribute permissions to the eDiscovery center.
D. Grant eDiscovery users site collection administrator permissions on every site collection that contains discoverable content.

Correct Answer: D

**Explanation/Reference:**

**Question 62**
You configure a SharePoint app to collect diagnostic information. The app must meet the following requirements:
- Record messages about all unrecoverable events that limit the functionality of the app, but do not stop the app.
- Record all events that include unexpected exceptions.
- Minimize the effects of logging on app performance.
You need to configure the application to meet the requirements. Which trace log level should you use?

A. High
B. Medium
C. Unexpected
D. Monitorable
E. Verbose

Correct Answer: D

**Explanation/Reference:**

**Question 63**
You develop a SharePoint app that displays information about automobile parts. You need to create a user profile property to classify automobile parts into categories. Which property name should you specify?

A. part-Classification
B. part.classification
C. part_classification
D. Part Classification

Correct Answer: B

**Explanation/Reference:**
Question 64
You develop a SharePoint app that reads social data from your company’s SharePoint site. You need to access the SocialFeedManager object. Which object or URL should you use?
A. http://<siteUri>/_api/social.feed
B. SocialFeedManager(ClientRuntimeContext, ObjectPath);
C. http://<siteUri>/social.feed
D. SPSocialFeedManager(UserProfile);
Correct Answer: B
Explanation/Reference:

Question 65
You have a custom Web Part that retrieves data across multiple task lists. Pages that contain the Web Part load slowly. You need to ensure that pages load as quickly as possible. Which methods should you use? (Each correct answer presents a complete solution. Choose all that apply.)
A. CrossListQueryCache.GetSiteData(SPContext.Current.Site, siteUrl)
B. CrossListQueryCache.GetSiteData(SPContext.Current.Site)
C. Cache.Get(siteUrl)
D. SPList.GetItems(spQuery)
Correct Answer: AC
Explanation/Reference:
A: GetSiteData method (SPSite, String)
Gets the cache data from the specified site and from the specified webUrl.
C: Cache.Get Method
Retrieves the specified item from the Cache object.

Question 66
You have a SharePoint publishing site. The marketing team tags their documents by using a managed metadata field named Location. The site has been fully crawled. Documents are tagged with city names only. A SharePoint app on the site displays search results by using the following term set.

You create the following code segment to query the contents of the site: (Line numbers are included for reference only.)

You need to create a Keyword Query Language (KQL) expression to return results for all assets in the Central region. Which code segment should you insert at line 02?
A. var queryTerms = "Location";
B. var queryTerms = "577c8e48-d5d9-4e5f-8e35-408c723feb11";
C. var queryTerms = "b49f6b3-4722-4336-9a5c-56c326b344d4";
D. var queryTerms = "owstaxidlocation: 1acfae8a-70b4-4ce0-bbf6-96edc4711f8d"
Correct Answer: C
Explanation/Reference:

Question 67
You create a SharePoint site collection for a law firm. You create the following objects in the site collection. You need to insert at line 02?
A. var queryTerms = "Location";
B. var queryTerms = "577c8e48-d5d9-4e5f-8e35-408c723feb11";
C. var queryTerms = "b49f6b3-4722-4336-9a5c-56c326b344d4";
D. var queryTerms = "owstaxidlocation: 1acfae8a-70b4-4ce0-bbf6-96edc4711f8d"
Correct Answer: C
Explanation/Reference:
A user searches for a legal case. The search results must contain only current cases. You need to create a custom result type that displays only current cases.

Which object should you use?

A. Cases
B. MPCaseID
C. case
D. ows_CaseID
E. CaseID

Correct Answer: B

Explanation/Reference:

Question 68
You access a Records Management site in SharePoint. You create the following segment: (Line numbers are included for reference only.)

Search results must display documents that contain specific keywords by using the following custom display template:

You need to implement the custom display template.

What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

You need to implement the custom display template.

What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

Γ A. Insert the following code segment at line 14:
   <td>Air Bill Time: _# airBillTimeDays = _#</td>

Γ B. Insert the following code segment at line 14:
   <td>Air Bill Time: _# airBillTime = _#</td>

Γ C. Insert the following code segment at line 05:
   var airBillTime = parseFloat(tax).toFixed(2);

Γ D. Insert the following code segment at line 13:
   <td>sales Tax: _# curTax = _#</td>

Γ E. Insert the following code segment at line 14:
   <td>Air Bill Time: _# airBillTime = _#</td>

Γ F. Insert the following code segment at line 13:
   <td>sales Tax: _# tax = _#</td>
Question 69
You have a SharePoint farm. You create a web service that connects to an extension point in the Search service. The web service processes string content and returns the string in all capitalized letters.
The web service includes the properties in the following table.

<table>
<thead>
<tr>
<th>Managed properties</th>
<th>Crawled properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>ows_q_TEXT_Title</td>
</tr>
<tr>
<td>TitleInCaps</td>
<td>ows_q_TEXT_TitleInCaps</td>
</tr>
</tbody>
</table>

You start the SharePoint Management Shell. You create the following Windows PowerShell cmdlet: (Line numbers are included for reference only.)

```powershell
01 $searchApp = Get-SPEnterpriseSearchServiceApplication
02 $config = New-SPEnterpriseSearchContentEnrichmentConfiguration
03 $config.Endpoint = http://localhost:8080/SearchProcessor.svc
04 $config.ContentEnrichmentConfiguration
```

You need to complete the Windows PowerShell cmdlet to register the Content Enrichment service. Which code segment should you insert at line 04?

A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: D
Explanation/Reference:

Question 70
You develop a SharePoint app that reads data from an external source by using Business Connectivity Services (BCS). The following markup defines the subscription. (Line numbers are included for reference only.)

```xml
01 <Subscription lobSystemInstanceName="ContosoOBInstance"
02 EntityNamespace="Contoso" EntityName="Employee"
03 Name="ContosoEmployeeSubscription" View="GetEmployeeById"
04 IsCached="true" RefreshIntervalInMinutes="360"
05 xmlns="http://schemas.microsoft.com/office/2006/03/DataCatalog">
06 <Queries>
07 <Query Name="ContosoEmployeeQuery"
08 MethodInstanceName="GetEmployees"
09 DefaultDisplayName="Employee Read List"
10 RefreshIntervalInMinutes="180" IsCached="true" Enabled="true">
11 </Query>
12 </Queries>
13 </Subscription>
```

Employee identification (ID) numbers that are less than 100 must be ignored. You need to configure the subscription. What should you do?
Question 71
You need to implement the term set import file to enable item assignments to be filtered. How should you structure the term sets? (To answer, drag the appropriate term to the correct level in the answer area. Each term 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:

Correct Answer:
**Question 72**
You develop a SharePoint-hosted app. The app includes the following code segment: (Line numbers are included for reference only.)

```javascript
01 var context;
02 var b;
03 var user;
04 $document.readyState(function () {
05 var e = ExecuteOrDelayUntilScriptLoaded('sharePointReady', "sp.userprofiles.js");
06 });
07 function SharePointReady() {
08 context = new SP.ClientContext.get_current();
09 getProperties();
10 }
11 function getProperties() {
12 b = a.getProperties();
13 context.load(b);
14 context.executeQueryAsync(onGetPropertiesSuccess, onGetPropertiesFail);
15 }
```

The app must display user profile data for the user that is logged in. The user profile data must include the PreferredName, Department, and WorkPhone properties. You need to ensure that the app displays the required user profile data.

Which code segment should you insert at line 12?

A. `var a = new SP.UserProfiles.UserProfile();`
B. `var a = new SP.UserProfiles.SocialFollowingManager(context);`
C. `var a = SP.UserProfiles.ProfileLoader.GetProfileLoader(context);`
D. `var a = new SP.UserProfiles.PeopleManager(context);`

Correct Answer: D

**Explanation/Reference:**

**Question 73**
You use Visual Studio to design a SharePoint solution for a company that provides computer support services to customers around the world. The solution must list the customer service representatives that resolve the highest number of support requests. The solution also must allow filtering of customer service representatives by region.

You need to configure the solution to meet the requirements. Which steps should you take? (Each correct answer presents part of the solution. Choose all that apply.)

A. Add a Recommended Items Web Part to the page.
B. Add and configure a Refinement Web Part to the page.
C. Add regions as property filters to the Search Results Web Part.
D. Configure the query for the Content Search Web Part.

Correct Answer: CD

**Explanation/Reference:**

**Question 74**
You develop a SharePoint app for a toy company that uses the Representational State Transfer (REST) API for search. The site collections in the app have been crawled recently and use the default search schema.

The app includes the following code segment: (Line numbers are included for reference only.)
Question 75
A legal company uses SharePoint for document and records management. You search all documents by using extractors and managed properties. FAST Query Language (FQL) is enabled for the result sources, and the content of the document is indexed as full text. All documents are named by using the following pattern: "AAA-Axxxx-AA". You must find documents that were created in May 2012 and contain the ordered keywords "liable", "advocate", and "adjudication". Results that are returned must include only document names that begin with "HCT-Q" and end only with "AB". You need to create the FQL query that returns the required results. Which FQL statements should you use? (Each correct answer presents part of the solution. Choose all that apply.)

A. write: =05/01/2012 and write<=05/31/2012
B. string('liable advocate adjudication", mode="onear"
C. title:HCT-Q*
D. title:HCT-Q???:AB

Correct Answer: BDF
Explanation/Reference:
B (not E):
* The ordered variant of NEAR, and requires an ordered match of the terms. The ONEAR N terms within a certain operator can be used to restrict the result set to items that have distance of 0. Returns only items that don’t match the operand. The operand may be any valid FQL expression.one another.
D (not C):
* All documents are named by using the following pattern: "AAA-Axxxx-AA".
* Results that are returned must include only document names that begin with "HCT-Q" and end only with "AB". F (not A):
* Range. Enables range matching expressions. The RANGE operator is used for numeric and date/time managed properties.
* FQL provides the datetime data type for date and time. The following ISO 8601-compatible datetime formats are supported in queries: YYYY-MM-DD YYYY-MM-DDThh:mm:ssZ YYYY-MM-DDThh:mm:ssf References: FAST Query Language (FQL) syntax reference

Question 76
You need to print out the terms and term sets for the Document Library app named Project Documents. What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

A. Insert the following code segment at line DL59:
Console.WriteLine("TermSet : = + termSet.Name + " Term : " + term.Name);
B. Insert the following code segment at line DL70:
Console.WriteLine("TermSet : " + termSet.Name);
C. Insert the following code segment at line DL35:
TaxonomySession taxonomy = TaxonomySession.GetTaxonomySession(clientContext);
D. Insert the following code segment at line DL56:
Console.WriteLine("TermSet : " + termSet.Name);
E. Insert the following code segment at line DL35:
TaxonomyItem taxonomy = TaxonomySession.GetTaxonomySession(clientContext);

Correct Answer: AE
Explanation/Reference:
From scenario:
/You must develop a console app to print the current term sets and each root term for the app by using the following style: TermSet : name Term : name
/You must create a Department term set to store team member roles and organize them by department types. The import file for the Department term set is the default for all new projects. The import file contains terms for System Architect, Programmer, Producer, and Manager. Each term is contained within two parent groups, Engineering or Production. Managers are members of the Production group only. All of the parent groups use a shared root-level term.

Question 77
You need to configure permissions for the publishing portal in the Term Store Manager. What should you do?
A. Add the URL http://adventureworks.com/sites/portal to the site collection access list.
B. Add the URL http://adventureworks.com/sites/portal to the Contributors list.
C. Add the URL http://adventureworks.com/sites/portal to the site collection access list.
D. Add the URL http://adventureworks.com/pages/navigation.aspx to the site collection access list.

Correct Answer: B
Explanation/Reference:

Question 78
You need to implement the remote event receiver for the Admin Custom List app. What should you do?
A. Insert the following code segment at line RR05:
   ListRemoteEventReceiver(properties);
B. Insert the following code segment at line RR05:
   ProcessOneWayEvent(properties);
C. Insert the following code segment at line RR11:
   ProcessEvent(properties);
D. Insert the following code segment at line RR11:
   ListRemoteEventReceiver(properties);

Correct Answer: B
Explanation/Reference:

Question 79
You need to configure a new site collection in Central Administration. You will use the site collection to manage navigation terms. What should you do?
A. Create a site collection by using the Publishing Portal template.
B. Create a site collection by using the Enterprise Search Center template.
C. Create a site collection by using the Records Center template.
D. Set the website address to http://adventureworks.com/sites/navigation

Correct Answer: A
Explanation/Reference:

Question 80
You need to implement the notifications for the custom list app named Admin. Which code segment should you add at line ER08?
A. public class EventReceiver1
B. public class EventReceiver1 : SPListEventReceiver
C. public class EventReceiver1 : SPItemEventReceiver
D. public class EventReceiver1 : SPEventReceiverBase

Correct Answer: C
Explanation/Reference:

Question 81
You need to ensure that end users can access the project’s external content type and model by using the provided naming specifications. Which properties in the external content-type editor must you set when you create the external content type in SharePoint Designer? (Each correct answer presents part of the solution. Choose all that apply.)
A. Set the value of the Display Name property to Project.
B. Set the value of the Namespace property to http://adventureworks/sites/portal.
C. Set the value of the Namespace property to proj_info.
D. Set the value of the Name property to proj_info.
E. Set the value of the Display Name property to proj_info.
F. Set the value of the Name property to Project.

Correct Answer: CE

Explanation/Reference:
From scenario:
(C) The Project external content type must use the root namespace proj_info.
E:

Question 82
You need to create the term set for the Document Library app named Project Documents. What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

A. Insert the following code segment into line DL18:
   TermStore termStore = taxonomySession.GetDefaultKeywordsTermStore();
B. Insert the following code segment into line DL18:
   TermStore termStore = taxonomySession.GetDefaultSiteCollectionTermStore();
C. Insert the following code segment into line DL24:
   myTermSet.CreateTerm(".png", 1033, Guid.NewGuid());
D. Insert the following code segment into line DL24:
   myTermSet.CreateTerm(".bmp", 1033, Guid.NewGuid());

Correct Answer: AC

Explanation/Reference:
* From scenario:
   You must develop a console app to print the current term sets and each root term for the app by using the following style: TermSet : name Term : name
(C, Not B, Not D) The Document Library app named Project Documents must include a local term set for document types. The term set must contain the default terms .docx, .png, and .jpg.

Question 83
You need to configure search results to meet the requirements for the Real Estate Guidelines document.
On the Site Settings page in the top level site of the site collection, which link should you select? (To answer, select the appropriate link in the answer area.)

Hot Area:

Correct Answer:
Question 84
You need to configure search engine optimization for the site. What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

A. Disable anonymous access to the web application while you make changes.
B. Activate the Search Engine Sitemap feature in the site collection.
C. Disable anonymous access to the site collection while you make changes.
D. On the Search Engine Optimization Settings page, in the Include these meta tags in pages text box, enter <meta name="do-not-follow" value="//_Configuration Files/" />
E. Ensure that the Search Engine Sitemap job is running.
F. On the Search Engine Sitemap Settings page, enter Disallow: /_ConfigurationFiles/ to the exclusion rules.

Correct Answer: BCD

Explanation/Reference:
* Steps in the SEO process:
  / Configure SEO settings for the site collection.
  / (B, not E) Configure sitemap settings for the site collection.
  / Add and edit SEO metadata.
  / * (not F): Configure SEO settings for the site collection Verify site ownership
1. Sign in to the webmaster tools portal for your desired search engine and provide requested information about your website.
2. From your SharePoint Public Website home page, click Settings Small Settings gear that took the place of Site Settings. > Site settings > Site Collection Administration > Search engine optimization settings.
3. Click Include these meta tags in pages.
4. Copy the meta tag provided by the webmaster tools portal, and paste it into the box.
5. Click OK.
6. From the webmaster tools portal, ask the search engine to verify your ownership of this website.

Question 85
You must create a search results page for the real estate properties that are available in each real estate office. You need to display the search result for the internet site collection. Which types of files should you create? (Each correct answer presents part of the solution. Choose all that apply.)

A. JavaScript (.js)
B. Active Server Page (.aspx)
C. Master Page (.master)
D. HTML (.html)
E. XML (.xml)

Correct Answer: BC

Explanation/Reference:
Note:
* Master Page defines "placeholders" which can be overridden in child page
* Content Page of a Master Page defaults to default.aspx

Question 86
You need to create a link to the Dallas office page. Which URL should you use?

B. http://www.contoso.com/Offices/Pages/Office.aspx
D. http://www.contoso.com/Offices/Dallas
E. http://www.contoso.com/Offices/Pages/Office.aspx?TermID=b6e11481-3445-413c-9da0-b15ae5d5c6d4

Correct Answer: D

Explanation/Reference:

Question 87
You need to make updates when an agent saves information about a new office.
How should you complete the relevant code? (To answer, drag the appropriate code segment to the correct location or location 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:

```
NavigationTermSet navTermSet = new TermSet(site.RootWeb, "SPNavigationProvider");

SPNavigationNode newNavigationNode = new SPNavigationNode(newOffice, newOffice);


NavigationTerm navTerm = navTermSet.CreateTerm(newOffice, NavigationLinkType.FriendlyUrl, Guid.NewGuid());


SPNavigationNode newNavigationNode = new SPNavigationNode(newOffice, newOffice); navTermSet.CreateTerm (newNavigationNode);
```

Correct Answer:

```
public void AddOffice(string newOffice)
{

    SPNavigation newNavigationNode = new SPNavigationNode(newOffice, newOffice);


    NavigationTerm navTerm = navTermSet.CreateTerm(newOffice, NavigationLinkType.FriendlyUrl, Guid.NewGuid());


    SPNavigationNode newNavigationNode = new SPNavigationNode(newOffice, newOffice); navTermSet.CreateTerm (newNavigationNode);

    termStore.CommitAll();
}
```

Explanation/Reference:

**Question 88**

You need to add the city of Dallas to the Cities term set. On the Term Store Management Tool page, which option should you select? (To answer, select the appropriate option in the answer area.)

**Hot Area:**
Question 89
You need to implement logging. Which items should you implement? (Each correct answer presents a complete solution. Choose all that apply.)

A. SPDiagnosticsServiceBase.WriteEvent
B. Microsoft.SharePoint.Diagnostics.ULSLogEntry
C. SPUser.Sid
D. PortalLog.LogString
E. SPAAlertTemplate
F. SPSecurity.RunWithElevatedPrivileges

Correct Answer: BF

Explanation/Reference:
F: The SPSecurity.RunWithElevatedPrivileges executes the specified method with Full Control rights even if the user does not otherwise have Full Control.

* From Scenario:
/ You design an application framework. The framework is used by other developers on the team. The framework must include entry points that are used to log errors and exceptions. You need the entry points.
Incorrect:
D: PortalLog.LogString method
This member is reserved for internal use and is not intended to be used directly from your code.

Question 90
You need to implement the social maintenance tool. How should you complete the relevant code? (To answer, select the appropriate option from each dropdown list in the answer area.)
Question 91
You need to add the field control to the About Us page layout.
Which control should you add?

A. `<PublishingWebControls:RichHtmlField
  FieldName="dcdf5d6c-0d71-47b4-85a6-9a6deba657b"
  runat="server"/>

B. `<SharePointWebControls:NoteField
  FieldName="SiteColumn2"
  runat="server"/>

C. `<PublishingWebControls:RichHtmlField
  FieldName="SiteColumn2"
  runat="server"/>

D. `<PublishingWebControls:RichHtmlField
  FieldName="15465e57-88ef57-8b74-d323ea98cb94"
  runat="server"/>

A. Option A  
B. Option B  
C. Option C  
D. Option D  

Correct Answer: A

Explanation/Reference:

Question 92
You need to configure search engine optimization for the site collection. On the Search Engine Optimization Settings page, what should you do? (Each correct answer presents part of the solution. Choose all that apply.)

A. Select the Do not filter link parameters option.  
B. In the Filter link parameters text box, enter agentName&officeId&certs  
C. In the Filter link parameters text box, enter agentName;officeId  
D. In the Filter link parameters text box, enter agentName&officeId  
E. Select the Filter link parameters option.  
F. In the Filter link parameters text box, enter agentName;officeId&certs  

Correct Answer: BE  

Explanation/Reference:  
* From scenario:  
The search engine must recognize that the following URLs display the same information about the same agent:  
http://www.contoso.com/FindAnAgent?agentName=JohnDoe&officeId=Sacramento  
http://www.contoso.com/FindAnAgent?agentName=JohnDoe&officeId=Sacramento&certs=true

Question 93
You need to implement connection management for catalog connections. Which method should you use? (Each correct answer presents part of the solution. Choose all that apply.)

A. `Public void UpdateCatalogConnection(CatalogConnectionSettings catalogInfo)  
B. `Public void OnPublishCatalog(string catalogPath)  
C. `Public void DeleteCatalogConnection(string catalogPath)  
D. `Public void SetCatalogConnection(string catalogPath, bool disconnect)  

Correct Answer: AC  

Explanation/Reference:  
* From scenario:  
/You must create a custom tool that site collection administrators use to manage catalog connections.  
/You must define the API calls to remove (C) or update (A) existing catalog connections.

Question 94
You need to ensure that the data synchronization does not affect the end user experience on the intranet. What should you do? (Each correct answer presents part of the solution. Choose all that apply.)
Question 95
You need to implement caching in your code.
Which caching option should you use?

A. Object Cache  
B. Distributed Cache  
C. Windows Server AppFabric Cache  
D. ASP.NET cache  

Correct Answer: C  
Explanation/Reference:

A: The object cache is used internally to optimize page rendering by storing properties of sites, page layouts, and pages. The object cache reduces the amount of traffic between the Web server and a SQL database. This results in higher throughput of rendered pages, thereby increasing the number of pages that can be delivered to clients.

B: SharePoint Server 2013 provides a disk-based cache that stores files that are used by web pages to help them load quickly in the browser, and reduces the load on the database server when it uses those files. These files are known as binary large objects (BLOBs), and the cache is known as the BLOB cache. The BLOB cache is stored directly on the hard disk drive of a front-end web server computer.

Question 96
You need to resolve the image loading issue.
What should you do? (Each correct answer presents a part of the solution. Choose all that apply.)

A. Set the size of the site collection object cache to at least 100 MB.  
B. Enable the binary large object (BLOB) cache on each front-end web server.  
C. Activate the Content Organizer site feature.  
D. Enable authenticated cache profiles for the site output cache.  
E. Enable publishing features for the site collection.  
F. Set the default device channel to the active channel.  

Correct Answer: AB  
Explanation/Reference:

A: By using Device Channel Renditions you can create smaller image sizes designed specifically for mobile use. This allows the mobile user to browse the smaller version, increasing the overall performance for the device they are using. Image Rendition enables you to have large files stored within...
your website along with smaller scaled variations for mobile users. When using Image Rendition you will have to enable BLOBCache to improve performance. From scenario:

Some employees report that the home page loads slowly. You investigate the issue and find out that the size of some images is very large. You must enable image renditions on the intranet site collection.

Question 97
You need to raise the visibility of the sites.
What should you do?

A. Enable the Reports and Data Search feature for the site collection.
B. Create a custom timer job that generates the SiteMap.xml file in the root directory of the web application.
C. Add a Script Editor Web Part to the landing page of the publishing site. In the web part, enter the location of the SiteMap.xml file.
D. In Internet Information Services (IIS), enable the SiteMap ISAPI filter for the web application.
E. Enable the Search Engine Sitemap Site Collection feature for the site collection.

Correct Answer: E
Explanation/Reference:

Question 98
You need to add code to line CM07 to create the Research Content document set.
How should you complete the relevant code? (To answer, select the appropriate option from the dropdown list in the answer area.)

Hot Area:

Correct Answer:
Question 99
You need to configure filtering for the Product page. Which filtering option should you use?
A. products/pages/products.aspx?productID=*&productCategory=*  
B. products.aspx;productID;productCategory;lucernepublishing.com  
C. products;productID;productCategory;lucernepublishing.com  
D. products/pages/products.aspx/*  
E. productID;productCategory

Correct Answer: E
Explanation/Reference:

Question 100
You create a custom Visual Web Part. You deploy the solution package to the farm by using Windows PowerShell. When you try to add the custom Visual Web Part to a SharePoint site, an error message displays that includes a correlation ID. You need to determine the cause of the error. What should you do? (Each correct answer presents a complete solution. Choose all that apply.)
B. Run the Get-SPDiagnosticConfig Windows PowerShell cmdlet.  
C. Run the Get-SPHealthAnalysisRule Windows PowerShell cmdlet.  
D. View the Service Calls tab on the Developer Dashboard.  
E. View the Unified Logging Service (ULS) tab on the Developer Dashboard.

Correct Answer: AE
Explanation/Reference:
http://ittechnotebook.blogspot.co.uk/2013/07/how-to-find-real-error-in-sharepoint.html

Question 101
You need to ensure that employees can change their display name. Which object model should you use?
A. Use the server-side object model.  
B. Use a Representational State Transfer (REST) based service.  
C. Use the JavaScript object model.  
D. Use the .Net client-side object model.

Correct Answer: A
Explanation/Reference:

Question 102
You need to add code to line MP22 to create the custom profile property. How should you complete the relevant code? (To answer, drag the appropriate code segments to the correct locations in the answer area. Each code segment may be used once or not at all. You may need to drag the split bar between panes or scroll to view content.)
Question 103
You need to add code to line MP57 to display the required properties for the user profile.
How should you complete the relevant code? (To answer, drag the appropriate code segments to the correct locations 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.)

Correct Answer:
Correct Answer:
Explanation
Explanation/Reference:

Question 104
You need to configure authentication for the external content type in the production environment. Which three actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)

Select and Place:

Correct Answer:
Note:
* From scenario:
  / You must create an external content type named TreyResearch to access the SQL data source. During development, the data source will be accessible locally.
  / The solution must use the SQL Server user named sqltrey to connect to the database.

Question 105
You need to add code at line A05 to complete the implementation of the app.
How should you complete the relevant code? (To answer, drag the appropriate code segment to the correct location 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:

Correct Answer:
Question 106
You need to create the external content type to support the data model.
In the Return Parameter Configuration dialog box, in the properties section, which options should you select? (To answer, select the appropriate setting or settings in the answer area.)

Correct Answer:
You must create an external content type named TreyResearch to access the SQL data source. During development, the data source will be accessible locally.

Question 107
You need to configure authentication to access the SQL data source during development. Which authentication mechanism should you use?

A. Impersonated Windows Identity
B. Pass Through
C. Impersonated Custom Identity
D. Forms Based Authentication

Correct Answer: B

Explanation/Reference:

Question 108
You need to ensure that users can upload pictures. Which code segment should you insert at line MP57?

A.
```csharp
using (SPSite site = new SPSite("http://treyresearch.com/users"))
{
    var upn = new UserProfileManager(clientContext);
    var up = upn.GetUserProfile(account);
    up["PictureUrl"].Value = picURL;
    up.Commit();
}
```

B.
```csharp
var peopleManager = new PeopleManager(clientContext);
var personProperties = peopleManager.GetPropertiesFor(account);
...
Stream sr = new System.IO.FileStream(picURL, FileMode.Open);
peopleManager.SetMyProfilePicture(sr);
...
```

C.
```csharp
using (SPSite site = new SPSite("http://treyresearch.com/users"))
{
    var upn = new UserProfileManager(clientContext);
    var stream = new System.IO.FileStream(picURL, FileMode.Open);
    upn.PictureUrl.SetMyProfilePicture(stream);
    upn.Commit();
}
```

D.
```csharp
var peopleManager = new PeopleManager(clientContext);
var personProperties = peopleManager.GetPropertiesFor(account);
...
Stream sr = new System.IO.FileStream(picURL, FileMode.Open);
personProperties.PictureUrl = picURL;
...
A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: B
Explanation/Reference:

Question 109
You need to apply the Design Package to all of the required sites. How should you complete the relevant code? (To answer, drag the appropriate code segments to the correct location or locations 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:

Correct Answer:

Explanation/Reference:

Question 110
You need to ensure that users can sort files by using the Projects field. From the List Settings page, which option should you select? (To answer, select the appropriate option in the answer area.)

Hot Area:
**Correct Answer:**

**Explanation/Reference:**

**Question 111**
You need to scope the feature containing the Litware Team Site template.
In the Feature Designer tool in Visual Studio 2012, which scope option should you select? (To answer, select the appropriate scope from the drop-down list in the answer area.)
Question 112:
You need to configure the publishing site to support the browser requirements.
From Site Settings, which option should you select first? (To answer, select the appropriate option in the answer area.)

Correct Answer:

Explanation/Reference:
Question 113
You need to ensure that the features required for the Litware Team Site web template are referenced correctly in the ONET.XML file. How should you complete the relevant code? (To answer, drag the appropriate code segments to the correct location or locations 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:
Question 114
You implement the dependency changes based on the requirements for the Litware web artifacts feature. When you deploy the Litware.Intranet.Templates.wsp package, you receive an error message. You need to ensure that the package deploys successfully. What should you do?

A. Set the scope of the Litware web artifacts feature to SPSite.
B. Set the scope of the Litware web artifacts feature to SPFarm.
C. Set the Is Hidden option of the Litware web artifacts feature to False.
D. Set the Auto Activate in Central Admin parameter of the Litware web artifacts feature to True.

Correct Answer: C
Explanation/Reference:

Question 115
How should you complete the relevant code?
Select and Place:

Correct Answer:
Question 116
Customers report that upon creation of the Payment Confirmation document, they do not receive a confirmation message. You need to ensure that customers receive confirmation messages. What should you do?
A. Ensure that the user has the correct permissions to start a workflow.
B. Ensure that the Payment Confirmation content type is deployed.
C. Ensure that the user is assigned to the Wholesale role.
D. Ensure that a workflow is associated with the document content type.
Correct Answer: D
Explaination/Reference:

Question 117
You need to set the appropriate permission levels. A variable named customRole references Wholesale. Which code segment should you add at line UA09?
A. customRole.BasePermissions = _permissions | SPBasePermissions.ViewFormPages;
B. customRole .BasePermissions = _permissions | SPBasePermissions.ViewPages;
C. customRole.BasePermissions = SPBasePermissions.EmptyMask SPBasePermissions.ViewPages;
D. customRole.BasePermissions = SPBasePermissions.ViewPages;
Correct Answer: B
Explaination/Reference:

Question 118
You need to add code at line UA09 to create the custom role. How should you complete the relevant code? (To answer, select the appropriate code segment from each drop-down list in the answer area.)

```
var customRole = {};

customRole.Name = "Wholesale";
customRole.Description = "Custom role for Wholesale customers";
```

Hot Area:
Question 119
A server in the SharePoint farm experiences high memory usage. Task Scheduler on the server runs a Windows PowerShell script to perform backups of Wholesale sites. You need to resolve any memory leak issues in the Windows PowerShell script. What should you do? (Each correct answer presents a complete solution. Choose all that apply.)

A. Insert the code segment at line EW04:
   Start-SPAssignment -Global

B. Insert the code segment at line EW17:
   $site.Close()

C. Insert the code segment at line EW17:
   Stop-SPAssignment -SemiGlobal

D. Insert the code segment at line EW17:
   Stop-SPAssignment Global

Correct Answer: AC

Explanation/Reference:
* Start-SPAssignment Global initiates a new assignment store.
* Stop-SPAssignment . Disposes of objects in the provided assignment collection. The Stop-SPAssignment cmdlet disposes of objects in the provided assignment collection. Use the Global parameter to dispose of all objects in the global assignment collector and to stop the global store from collecting additional objects. Provide a SemiGlobal assignment collector to dispose of all contained objects.

From scenario:
* Performance Optimization and Memory Usage
SPSite objects must be removed from memory immediately after the objects go out of scope.

Question 120
You need to add code at line IL22 to implement the task list design. How should you complete the relevant code? (To answer, drag the appropriate code segments to the correct location or locations 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:
Question 121
You receive an error when you deploy the app. 
You need to resolve the error. 
What should you do?

A. Create a deployment package and upload the app to the app catalog in SharePoint.  
B. Enable side-loading of apps in the app manifest.  
C. Deploy the app to https://contoso-my.sharepoint.com.  
D. Enable side-loading of apps in the Visual Studio project properties.

Correct Answer: A
Explanation/Reference:

Question 122
You need to validate that specific users can delete tasks. Which code segment should you insert at line CD04?
Question 123
You need to implement term set navigation. Which code segment should you insert at line TN24?

A. Option A  
B. Option B  
C. Option C  
D. Option D  
Correct Answer: D  
Explanation/Reference:

A. Option A  
B. Option B  
C. Option C  
D. Option D  
Correct Answer: D  
Explanation/Reference:

Question 124
You need to complete the code at line LV19 to implement the validation of the app license. Which code segment should you use?

A. Option A  
B. Option B  
C. Option C  
D. Option D  
Correct Answer: D  
Explanation/Reference:
Question 125
You need to implement term set navigation.
Which code segment should you insert at line TN16?

A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: C
Explanation/Reference:

Question 126
You receive an error when you deploy the app.
You need to resolve the error.
What should you do?

B. Enable side-loading of apps in the Visual Studio project properties.
C. Deploy the app to https://contoso-my.sharepoint.com.
D. Deploy the app to https://contoso.sharepoint.com/tasks.

Correct Answer: A
Explanation/Reference:

Question 127
Some franchisees want to launch the FranchiseMonitor app from a link named Launch Franchise Monitor that is displayed next to the name of the user who is currently logged in. Other franchisees do not want to have the link present. The link must be contained within the same out-of-the-box control, as shown in the screenshot below:

You need to configure support for the Launch Franchise Monitor link.
Which four actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)

Select and Place:

Correct Answer:
Question 128
You need to select the app experience for the CourierMobile app.
In the App for Office 2013 dialog window, which configuration option should you select? (To answer, select the appropriate configuration option in the answer area.)

Correct Answer:
Question 129
You need to design the FranchiseMonitor app to meet the requirements.
What should you do? (To answer, select the appropriate option from each drop-down list in the answer area.)

Correct Answer:

Create the **CourierManagerApp** app as an

Design the **CourierManagerApp** app UI with a/an

Correct Answer:

Create the **CourierManagerApp** app as an

Design the **CourierManagerApp** app UI with a/an

Explanation/Reference:

Question 130
You need to implement the custom claims provider for the SharePoint farm. Which code segments should you implement? (Each correct answer presents part of the solution.
Choose all that apply.)

You need to set the appropriate permissions for the franchise employees' customer list and customer subsite access. What should you do?

A. Add franchise employees to the Members group in the CorporateSiteCollection site collection. Break inheritance at the franchisee subsite level.
B. Create a custom role definition at the franchisee subsite level. Add franchise employees to the custom role.

Correct Answer: BDF

Explanation/Reference:
* From scenario: MyClaimsProvider.es
CorporateSiteCollection site collection with Limited Access to the Customers list. Add franchise employees to the custom role at the CorporateSiteCollection site collection. Break inheritance at the subsite level. Add franchise owners to the Owners group at the subsite level.

C. Create a custom role definition in the CorporateSiteCollection site collection with Limited Access to the Customer list. Add franchise employees to the custom role. Allow full inheritance of the role definition and permissions at the site level. D. Add franchise employees to the Visitors group in the CorporateSiteCollection site collection. Break inheritance at the franchisee subsite level. Create a custom role definition at the subsite level with Full Control permissions. Add franchise employees to the custom role.

Question 131
You need to create rules in the CourierMobile app based on the ItemType that arrives. For which ItemTypes should you test? (Each correct answer presents part of the solution. Choose all that apply.)

A. IPM.Schedule.Meeting.Tent
B. IPM.Note
C. IPM.Schedule.Meeting.Request
D. IPM.Appointment
E. IPM.Schedule.Meeting.Cancelled
F. IPM.Schedule.Meeting.Pos
G. IPM.Schedule.Meeting.Neg

Correct Answer: DE
Explanation/Reference:
From scenario:
* The CourierMobile app receives Microsoft Outlook appointments (D) and Outlook appointment cancellations (E) from the CloudManager app. The appointments include the address of the location for pick-up or drop-off.

Question 132
You need to meet the requirements for data storage for the CourierMobile app and the CloudManager app. Which technologies should you use? (Each correct answer presents part of the solution. Choose all that apply.)

A. Windows Azure SQL Database
B. SharePoint content database
C. Secure Store
D. SQL Server Express LocalDB
E. SharePoint list

Correct Answer: AD
Explanation/Reference:
A: SQL Azure in the cloud.
D: LocalDB is a lightweight version of Express that has the same programmability features, but it runs in user mode and has a fast, zero-configuration installation and a short list of prerequisites.
From scenario:
* CourierMobile App
The CourierMobile app must be able to capture more than 30 million data points of location data daily as they occur and upload the location data to the cloud when connected to the Internet.

* CloudManager App
// The CloudManager app must elastically scale to capture courier location data as the number of bicycle couriers increases or decreases.
// The CloudManager app must process bicycle courier location data from a data store capable of storing more than 30 million items.

Question 133
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:
Question 134
You need to ensure that the CloudManager app can write route progress check-ins to the courier’s microfeed. What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

A. Ensure that SP.RequestExecutor.js can be accessed in a browser window with no errors.
B. Ensure that the CloudManager app has the Manage permission request scoped to the URL for the franchisee’s My Site.
C. Ensure that the MySite host is provisioned for each franchisee.
D. Ensure that all cookies are made available between the My Site and the CloudManager app domain.
E. Ensure that the CloudManager app has the Write permission request scoped to the URL for the franchisee’s My Site.
F. Ensure that SP.UserProfiles.js can be accessed in a browser window with no errors.

Correct Answer: ABDE

Explanation/Reference:

From scenario:

Business Requirements

The FranchiseMonitor app must allow a Franchise employee to upload Appointments.csv to a SharePoint document library in each Franchisee site collection, and send Appointments.csv to the CloudManager app.

The CloudManager app must implement business logic that parses Appointments.csv and geolocation data and sends Appointments or Appointment cancellations to the CourierMobile app.

Question 135
You need to maximize performance of video delivery. Which code segment should you use as the body of the GetVideoStream function in the VideoController class?

A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: D

Explanation/Reference:

Question 136
The transcode.exe utility activates its license online when it is installed. You need to ensure that the registration of the transcode utility is handled as specified in its license. Which method should you add to the TranscodeWorkerRole class?
**Question 137**
You need to ensure that all customers can delete videos regardless of their browser capability. Which code segment should you use as the body of the SendAsync method in the DeleteHandler class?

A. Option A  
B. Option B  
C. Option C  
D. Option D  

Correct Answer: D  
Explanation/Reference:

**Question 138**
The designer for the website gave you the following image as the design for the page.

The normal color for the tab is #2da4c2, and the color when the mouse is over the tab is #ff800. The HTML that implements the navigation tab is as follows.

```html
<ul id="nav">
    <li><a href="/">Home</a></li>
    <li><a href="/about">About</a></li>
    <li><a href="/contact">Contact</a></li>
</ul>
```

You need to implement the design.  
What should you do? (To answer, select the appropriate options in the answer area.)
Question 139

The GetDealPrice method must be called by using Ajax. You need to get the price of a product by using the GetDealPrice method of the ProductController. Which code segment should you use? (Each correct answer presents a complete solution. Choose all that apply.)

A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: CD

Explanation/Reference:

Question 140

You need to implement the mobile device support requirements. How should you build the ProcessRequest method? (To answer, select the appropriate options in the answer area.)
protected override void ProcessRequest(HttpContext httpContext)
{
    var response = httpContext.Response;
    var mobileFormat = "image/png";
    var normalFormat = "image/png";
    if (httpContext.Response.ContentType == "image/png")
    {
        if (Browser.IsMobileDevice)
        {
            Mobile == "+mobile|tablet"
        }
        else
        {
            WriteImage(response, mobileFormat);
        }
    }
    else
    {
        WriteImage(response, normalFormat);
    }
}
Question 141
You need to ensure that all the MVC controllers are secure. Which code segment should you use as the body for the CreateController method in AdminVerifierFactory.cs?
Question 142
You are creating a new authentication system that uses an HTTP header value. The existing authentication system must continue to operate normally. You need to implement the custom authentication. What should you do? (Each correct answer presents a complete solution. Choose all that apply.)

A. Create a class derived from ActionResult and check for a valid HTTP header value in the ExecuteResult method. Change all actions to return this new class.
B. Create an HttpHandler to check for a valid HTTP header value in the ProcessRequest method.
C. Create an HttpModule and check for a valid HTTP header value in the AuthenticateRequest event.
D. Create a class derived from AuthorizeAttribute and check for a valid HTTP header value in the AuthorizeCore method. Change usages of the existing AuthorizeAttribute to use the new class.

Correct Answer: CD
Explanation/Reference:

Question 143
You updated the web.config file with the HTTP run-time value required to display an alternative version of the site. You need to ensure that the correct page displays to the users. Which code segment should you use to update the controller?

A. If (Request.IsTabletDevice)
B. If (Request.Browser.IsBrowser("Mobile"))
C. If (Request.UserAgent["Tablet"])  
D. If (Request.Browser.IsMobileDevice)

Correct Answer: D
Explanation/Reference:

Question 144
You need to implement client-side animations according to the business requirements. Which line of code should you use? (Each correct answer

```csharp
var controller = base.CreateController(requestContext, controllerName) as Controller;
var attributes = controller.GetType().Attributes.ToString();
if (!attributes.Contains("VideoAdminAttribute"))
    throw new Exception("Not an Administrator");
return controller;

if (requestContext.HttpContext.Items["Administrator"] == null)
    throw new Exception("Not an Administrator");
return base.CreateController(requestContext, controllerName) as Controller;

var controller = base.CreateController(requestContext, controllerName) as Controller;
var hasFilter = controller.GetType().CustomAttributes.Any((x) => x.AttributeType.Name == "VideoAdminAttribute");
if (hasFilter == null)
    throw new Exception("Not an Administrator");
return controller;

if (requestContext.RouteData.Values["Administrator"] == null)
    throw new Exception("Not an Administrator");
return base.CreateController(requestContext, controllerName) as Controller;
```
presents a complete solution. Choose all that apply.)

A. $\text{\$\"body h1:nth-child(1)\"}. \text{fadeIn}(1000);$
B. $\text{\$\"body h1:nth-child(1)\"}. \text{fadeOut}(1000);$
C. $\text{\$\"body h2:nth-child(1)\"}. \text{animate} \{ \text{opacity}: 0 \};$
D. $\text{\$\"body h1:nth-child(1)\"}. \text{animate} \{ \text{opacity}: 1 \};$

Correct Answer: BC
Explanation/Reference:

Question 145
You need to implement client-side animations according to the business requirements. Which line of code should you use? (Each correct answer presents a complete solution. Choose all that apply.)

A. $\text{\$\"h1: first\"}. \text{animate} \{ \text{opacity}: 0 \};$
B. $\text{\$\"h1: first\"}. \text{fadeIn}(1000);$
C. $\text{\$\"h1: first\"}. \text{animate} \{ \text{opacity}: 1 \};$
D. $\text{\$\"h1: first\"}. \text{fadeOut}(1000);$

Correct Answer: AD
Explanation/Reference:

Question 146
You need to configure session storage in the web.config file to meet the technical requirements for scalability. Which SessionState mode should you use? (Each correct answer presents a complete solution. Choose all that apply.)

A. StateServer
B. InProc
C. AutoDetect
D. SqlServer

Correct Answer: AD
Explanation/Reference:

Question 147
You need to update the routes to ensure that a product is always displayed on the product page. Which code segment should you use?

A. Option A
B. Option B
C. Option C

A. Option A
B. Option B
C. Option C
Question 148
When users attempt to retrieve a product from the product page, a run-time exception occurs if the product does not exist. You need to route the exception to the CustomException.aspx page. Which method should you add to MvcApplication?

A. Option B
B. Option C
C. Option D

Correct Answer: B
Explanation/Reference:

The Contract.Requires(Of TException) method specifies a precondition contract for the enclosing method or property, and throws an exception if the condition for the contract fails.
Syntax: 'Declaration

Question 149
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<ArgumentException>(productId != 0);

B. Modify the GetDealPrice method of ProductController as follows.
Contract.Requires<ArgumentException>(productId > 0);

C. Modify the RegisterGlobalFilters method of the Global.asax.cs file as follows.
Contract.Requires<ArgumentException>(productId > 0);

D. Modify the GetDealPrice method of ProductController as follows.
Contract.Assume<ArgumentException>(productId > 0);

Correct Answer: B
Explanation/Reference:

The Contract.Requires(Of TException) method specifies a precondition contract for the enclosing method or property, and throws an exception if the condition for the contract fails.
Public Shared Sub Requires(Of TException As Exception) ( _ condition As Boolean _
) Type Parameters TException
The exception to throw if the condition is false.
Parameters condition
Type: System.Boolean
The conditional expression to test.
Reference: Contract.Requires(Of TException) Method (Boolean)

Question 150
You need to implement the business requirements for managing customer data. What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

A. Add a class named Customer-Controller to the Controllers folder. Then add a method named Edit to the class.
B. Create a new controller named Administration in the Controllers folder. Add an action named EditCustomer to the controller.
C. Add a folder named Customer to the Views folder. Then create a view inside this folder named Edit.aspx.
D. Create a new folder named EditCustomer to the Views folder. In the new folder, create a new file named Administration.aspx.

Correct Answer: AC
Explanation/Reference:

Question 151
You need to add a method to the ProductController class to meet the exception handling requirements for logging. Which code segment should you use?

A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: A
Explanation/Reference:
Question 152
An advertising campaign was recently launched. Some of the ads contain a link to products that no longer exist or have IDs that have changed. You need to ensure that all product links display a product. Which code segment should you use to configure the route?

A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: A
Explanation/Reference:

Question 153
You need to ensure that only valid parameters are passed to the EditLog action. How should you build the route? (To answer, select the appropriate options in the answer area.)
Correct Answer:
Question 154
You need to ensure that only valid parameters are passed to the EditLog action. How should you build the route? (To answer, drag the appropriate code segments 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:
Correct Answer:

Explanation/Reference:

**Question 155**
You need to implement the requirements for handling IIS errors. What should you do?

A. Option A  
B. Option B  
C. Option C  
D. Option D
Question 156
You need to implement the ViewsRunLog_CalculatePace.cshtml partial view from ViewsRunlog GetLog.cshtml to display the runner’s average mile pace.
How should you implement the view? (To answer, drag the appropriate code segments 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:

Correct Answer: A
Explanation/Reference:

Question 157
You need to implement security according to the business requirements.
How should you modify RunLogController? (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:
Question 158:
You need to implement the map of the runners’ paths.
How should you build the video viewer? (To answer, select the appropriate options in the answer area.)
Question 159
You need to add an action to RunLogController to validate the users' passwords. Which code segment should you use?
A. Option B
B. Option C
C. Option D

Correct Answer: B
Explanation/Reference:

Question 160
You need to make all of the rows in the table bold in the Views/RunLog/GetLog.cshtml view. Which code segment should you use?

A. Table > th:last-child { font-weight: bold; }
B. Table>first-child{ font-weight: bold; }
C. Table>tr>th:nth-child{2){font-weight: bold; }
D. Table > tr { font-weight: bold; }

Correct Answer: D
Explanation/Reference:

Question 161
You need to display the "miles" unit description after the distance in the GetLog view. Which line of code should you use to replace line GL21? (Each correct answer presents a complete solution. Choose all that apply.)

A. @log.Distance miles
B. @Html.DisplayFor(model => log.Distance) miles
C. @log.Distance.ToStringO @Html.TextArea ("miles")
D. @Html.DisplayFor(model => log.Distance.ToString() + " miles")

Correct Answer: AB
Explanation/Reference: