Question 1
Which shape should you use?
You plan to create a workflow design by using Microsoft Visio 2013 and then import the design into SharePoint Designer 2013. You need to ensure that you have branching capability.
Which shape should you use?
A. Assign a Task
B. Stage
C. Loop
D. Step

Correct Answer: B
Explanation/Reference:
A stage can contain any number of shapes and may include branching.

Question 2
What should you do?
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 activate the solution.
B. Grant permission to the user to execute the solution.
C. Configure a local mode load-balancing scheme.
D. Stop the Microsoft User Code Host Service.
E. Configure a remote mode load-balancing scheme.
F. Start the Microsoft SharePoint Foundation Sandboxed Code Service.

Correct Answer: AF
Explanation/Reference:
A: Need to activate the feature that provisions the files.
siteCollection.Features.Add([guid_of_your_feature])
F: To enable sandboxed solutions by using Central Administration
1. Verify that you have the following administrative credentials:
2. On the home page of the Central Administration Web site, in the System Settings section, click Manage services on server.
3. On the Services on Server page, in the Server box, select the server on which you want to enable sandboxed solutions.
4. In the Microsoft SharePoint Foundation Sandboxed Code Service row, in the Action column, click Start.

Question 3
Which technology should you use?
The Contoso SharePoint on-premise intranet portal stores content in 50 site collections. Contoso wants to display all content tagged with a metadata term on the main page of the portal. You need to display all documents with the metadata term without using any custom code. Which technology should you use?
A. SPQuery with Site Collection set to the portal’s main page site collection
B. Content Query Web Part (CQWP)
C. Content Search Web Part (CSWP)
D. SPSiteDataQuery

Correct Answer: C
Explanation/Reference:
CSWP can be configured to “see” items anywhere in SharePoint.
Incorrect:
Not B, not D: CQWP and related SPSiteDataQuery can only search within the current site collection. The Content Query Web Part has the following limitations:
/You can only aggregate data within a single site collection.
/You can only aggregate list information.
Reference: Using the Content Search web part (and understanding SP2013 search)
Question 4
Which XML elements should you include in Target 1, Target 2, Target 3, Target 4 and Target 5 to complete the code?

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.
You need to identify what the designer-generated XML will look like?
You have the following code:

Which XML elements should you include in Target 1, Target 2, Target 3, Target 4 and Target 5 to complete the code? (To answer, drag the appropriate XML elements to the correct targets 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:

Explanation/Reference:
* Target 1, target 5: Elements Element (Field)
  Top-level element in a Feature manifest file that contains Feature element declarations. Example:
  &lt;Elements Id = "Text"&gt;
  &lt;/Elements&gt;
  * Target 2, 3, 4
  The FieldRefs element contains a collection of FieldRef elements. The FieldRef element is a reference to a column defined elsewhere, either at the site or list level.
Question 5
Which code segments should you include in Target 1, Target 2, Target 3 and Target 4 to complete the code?

You work on a SharePoint Enterprise Content Management (ECM) project. You need to ensure that all Microsoft Word documents are converted to Portable Document Format (PDF) once they are published and approved. You have the following code:

```csharp
public override void Target 1(List<SPropertiesItemProperties> properties)
{
    base.Target 2(properties);
    SPropertiesItem spListItem = properties.ListItem;
    SPFile spfile = spListItem.File;
    String spfileextension = Path.GetExtension(spFile.Name);
    if ((spFileextension.ToUpper() == "".DOC""")
        (spFile.Level == Target 3.Target 4))
    {
        ConversionJob conversionJob = new ConversionJob("Word Automation Services Application");
        conversionJob.Name = "PDF Conversion";
        conversionJob.Settings.OutputSaveBehavior = SaveBehavior.AlwaysOverwrite;
        conversionJob.Settings.OutputFormat = SaveFormat.PDF;
        conversionJob.Settings.UpdateFields = true;
        string siteurl1 = properties.Web.Url + "\";
        string outputurl1 = siteurl1 + spFile.Url.Replace("".doc"", "".pdf"");
        conversionJob.AddFile(siteurl1 + spFile.Url, outputurl1);
        conversionJob.Start();
    }
}
```

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

Select and Place:

Correct Answer:
Question 6
Which activity should you use?
HOTSPOT
A company’s IT department implements a Help Desk Ticketing system that involves workflow development by using SharePoint Designer and InfoPath. The Help Desk Ticket workflow involves multiple steps and tasks that have serial approvals of multiple users and groups with custom task email messages.
You need to manage task approvals.
Which activity should you use? (To answer, select the appropriate action from the list of actions in the answer area.)
Hot Area:

Correct Answer:
Explanation/Reference:
* Start a task process

Start a task process is used to assign a task to multiple participants. Reference: Understanding Task Actions in SharePoint Designer 2013

Question 7
Which form type should you use?
You develop a SharePoint app to create an approval workflow for expense reports.
The app must collect user input during the workflow.
You need to use ASP.NET forms in the workflow.
Which form type should you use?
A. Workflow modification form
B. Workflow input form
C. Workflow task form
D. Workflow initiation form

Correct Answer: A
Explanation/Reference:
Modification Forms
Modifications are options you present to users to change the workflow as it's running on an item. You can then create modification forms that enable users to specify the parameters of the modification.
Note:
Four types of forms can be used in a workflow: association, initiation, task, and modification.
Incorrect:
Not D: Association and Initialization Forms
Association and initialization forms are displayed for users to fill out before any workflow is actually started. You can use these forms to enable users to set parameters and other information for the workflow before it starts.
Reference: Workflow Forms Overview

Question 8
Which code segments should you include in Target 1, Target 2 and Target 3 to complete the code?
DRAG DROP
Northwind Traders uses Microsoft Office 365 to share customer information between internal and external users. Northwind Traders plans to allow external sales managers to manage customers on the Office 365 site by providing a custom SharePoint autohosted app. The custom web application will be hosted on Microsoft Azure.
You develop the autohosted app that allows all users on Office 365 to be able to read and write data in a SharePoint list from an ASP.NET web application.
You need to ensure that the custom web application will authenticate itself, get access tokens from the Microsoft Azure Access Control Service (ACS) and read to and write from a SharePoint list.
You have the following code:
Which code segments should you include in Target 1, Target 2 and Target 3 to complete the code? (To answer, drag the appropriate code segments to the correct targets in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Select and Place:

Correct Answer:

Explanation/Reference:
* Example (Target1, Target2) (TokenHelper.GetContextTokenFromRequest, TokenHelper.ReadAndValidateContextToken)
  // The Page_Load method fetches the context token and the access token.
  // The access token is used by all of the data retrieval methods. protected void Page_Load(object sender, EventArgs e)
  {
    string contextTokenString = TokenHelper.GetContextTokenFromRequest(Request); if (contextTokenString != null)
    {
      // etc,
      contextToken =
TokenHelper.ReadAndValidateContextToken(contextTokenString, Request.Url.Authority);

* Example (Target 3, TokenHelper.GetClientContextWithAccessToken):
  // This method retrieves information about the host web by using the CSOM. private void RetrieveWithCSOM(string accessToken)
  {
      if (IsPostBack)
      {
          sharepointUrl = new Uri(Request.QueryString["SPHostUrl"]);
      }
      ClientContext clientContext = TokenHelper.GetClientContextWithAccessToken(sharepointUrl.ToString(), accessToken);
  }

Question 9
How should you complete the relevant code?

A company uses SharePoint and Microsoft Dynamics CRM to manage customers. External users log in to the SharePoint site by using forms-based authentication.

The company needs to authenticate users by using a custom claims provider. You have the following requirements:
1. Site administrators must be able to locate users in CRM.
2. Site administrators must be able to select users based on their roles in CRM.
3. Site administrators must be able to confirm that users exist in CRM.

You need to implement the custom claims provider.

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:
Requirement 1:
  * FillHierarchy.SupportsHierarchy property
When implemented in a derived class, determines whether the claims provider supports hierarchical display.
  * FillHierarchy
If you want to display hierarchy on the left pane of the claims picker, you must implement the FillHierarchy method and the SupportsHierarchy property in the SPClaimProvider class.
Requirement 2: FillSearch.SupportSearch
If you want to be able to search for claims in the People Picker control, you must implement the FillSearch method and Microsoft.SharePoint.Administration.Claims.SupportSearch property.
The SupportsSearch must return true.
Requirement 3: FillResolve.SupportResolve
A People Picker with claims picking functionality is sometimes referred to as a claim picker. If you want to be able to resolve claims by using the type-in control of the claims picker, you must implement this method and implement the SupportResolve() property to return true.
Incorrect:
  * FillClaimsForEntity.SupportsEntityInformation
When you include additional claims in a user’s security token, you are augmenting claims. If you want to augment claims, you must implement the FillClaimsForEntity method. In addition, you must also set the SupportsEntityInformation property to true in the SPClaimProvider class. In order for this method to be invoked, the SupportsEntityInformation must return true.

Question 10
Which option should you select?
HOTSPOT
A web application that listens on port 80 has been created for Internet users to access your company’s SharePoint site. The web application uses claims-based authentication.
Users report that they are prompted for credentials when they access the site in their browser.
You need to enable anonymous access.
On the Manage web applications page in Central Administration, which option should you select? (To answer, select the appropriate menu item in the answer area.)

Correct Answer:

Explanation/Reference:
  * Permission Policy
On the SharePoint Central Administration website, in the Application Management section, click Manage web applications. Click to highlight the web application whose permission policy that you want to manage.
In the Policy group of the ribbon, click Anonymous Policy.
In the Anonymous Access Restrictions dialog box, in the Zone list, click the zone for which you want the policy to apply. In the Permissions section, select the permission policy that you want anonymous users to have, and then click Save.

Question 11
Which xml elements should you include in Target 1, Target 2, Target 3, Target 4 and Target 5 to complete the code?
DRAG DROP
You add a site column for an Enterprise Content Management (ECM) project by using the Site Column Designer in Visual Studio 2012.
You need to identify what the designer-generated XML will look like.
You have the following code:
Which XML elements should you include in Target 1, Target 2, Target 3, Target 4 and Target 5 to complete the code? (To answer, drag the appropriate XML element to the correct targets 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:**

**Explanation/Reference:**

* Target 1, Target 5: Elements Element (Field)  
  Top-level element in a Feature manifest file that contains Feature element declarations. Example:

```xml
<Elements Id="Text">
  <Field ID="{060E50AC-E9C1-4D3C-B1F9-DE0B2AC300F6}"
    Name="Amount" Type="Currency"/>
</Elements>
```

**Question 12**

Which option should you select?

HOTSPOT

A web application that listens on port 80 has been created for Internet users to access your company’s SharePoint site. Your company requires
anonymous users to authenticate before they post content.
You need to change the permissions that are assigned to unauthenticated users.
On the Manage web applications page in Central Administration, which option should you select? (To answer, select the appropriate menu item in the answer area.)
Hot Area:

Correct Answer:

Explanation/Reference:
* For the unauthenticated users use the Anonymous policy.

**Question 13**
Which code segments should you include in Target 1 and Target 2 to complete the code?

DRAG DROP
You need to retrieve data about all the lists in a site by using the REST (Representational State Transfer) API. You have the following code:

```
string siteUrl = "http://server/sites/site";
HttpRequest endpointRequest =
    (HttpWebRequest)HttpWebRequest.Create(siteUrl.ToString());
    + Target 1);
endpointRequest.Credentials = new NetworkCredential("userid", "password", "domain");
endpointRequest.Method = Target 2;
```

endpointRequest.Accept = "application/json;odata=verbose";

```
HttpWebResponse endpointResponse =
    (HttpWebResponse)endpointRequest.GetResponse();
```

Which code segments should you include in Target 1 and Target 2 to complete the 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:

*HttpWebRequest* "/_api/web/lists" Example:
The code in the following example shows you how to request a JSON representation of all of the lists in a site by using C#. It assumes that you have an OAuth access token that you are storing in the `accessToken` variable.

```csharp
C# HttpWebRequest endpointRequest = (HttpWebRequest)HttpWebRequest.Create(sharepointUrl.ToString() + "/_api/web/lists"); endpointRequest.Method = "GET";// etc.
```

Reference: How to: Complete basic operations using SharePoint 2013 REST endpoints

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**Question 14**
Which values should you include in Target 1, Target 2, Target 3 and Target 4 to complete the script?

**DRAG DROP**

Contoso, Ltd. uses SharePoint for document sharing, task management, and workflows. Contoso, Ltd has a SharePoint portal with a URL of `intranet.contoso.com`. The portal has 5,000 subsites. It is used by 50,000 users.

You develop a custom web level feature that allows users to see their tasks from every website on the portal. You need to use a Windows PowerShell script to enable the web level feature in the subsites without adversely impacting the performance of the server. You have the following script:

```
foreach($site in ($siteScope | Get-SPSite "http://intranet.contoso.com"))
{
}
```

Which values should you include in Target 1, Target 2, Target 3 and Target 4 to complete the script? (To answer, drag the appropriate values to the correct targets in the answer area. 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:

**Correct Answer:**

1. `$siteScope = Get-SPSiteAdministration`
2. `$webScope = Start-SPAssignment`
3. `$webScope = End-SPAssignment`
4. `$stop-SPAssignment $webScope`
**Question 15**

Which service application should you create?

You prepare an on-premise farm to support the creation of SharePoint apps. You need to create an instance of a service application before building apps. Which service application should you create?

A. Secure Store service
B. App Management service
C. Machine Translation service
D. SharePoint-hosted service

Correct Answer: D

**Explanation/Reference:**

SharePoint-hosted apps

Start with the simplest option: SharePoint-hosted apps, or apps where all components are hosted on either an on-premises or Office 365 SharePoint farm. SharePoint-hosted apps are installed on a SharePoint 2013 website, called the host web. They have their resources hosted on an isolated subsite of a host web, called the app web.

Incorrect:

Not A: Secure Store Service is a shared service that provides storage and mapping of credentials such as account names and passwords. It enables you to securely store data that provides credentials required for connecting to external systems and associating those credentials to a specific identity or group of identities.

Not B: The App Management Service is responsible for storing and providing information concerning SP App licenses and permissions. All licenses for apps downloaded from Marketplace will be stored in Apps service application. The App Management Service is accessed each time an app is requested or used in SharePoint to verify validity of the request.

Not C: Machine Translation Service is a new service application in SharePoint 2013 that provides automatic machine translation of files and sites.

Reference: Choose patterns for developing and hosting your app for SharePoint.

**Question 16**

Which method of the timer job should you override?

A company uses SharePoint team sites for their projects, which last for a month. At the end of every month the project site must be archived and moved to a backup web application. The company plans to create a timer job. You need to write custom code that will move the site from the production web application to the archived web application.

Which method of the timer job should you override?

A. RunNow
B. Execute
C. Update
D. Provision
Correct Answer: B
Explanation/Reference:
Execute
Executes the job definition on the local machine and is intended to be used only by the timer service.
Note: After you create the constructors, you must override the Execute method of the SPJobDefinition class and replace the code in that method with the code that your job requires.
Incorrect: A: RunNow
Schedules the job for immediate execution. C: SPJobDefinition.Update method
Causes the job definition to save its state and propagate changes to all machines in the farm. D: Provision
Makes the changes to the local server that are needed before the object can be used. Reference: Creating Timer Jobs in SharePoint 2010 that Target Specific Services

Question 17
Which five actions should you perform in sequence?
DRAG DROP
A company develops a workflow by using SharePoint Workflow Manager. The Auditing department has a SQL Server database that contains a list of all available software. The list contains the names of the users who have permission to use the software. The data is available through a Windows Communication Foundation (WCF) service that uses OData and is deployed internally.
The IT department plans to implement a help desk solution on the IT site collection that involves the creation of workflows.
A user must request approval to use software that is not available internally from three different managers. The workflow should be approved if two of the three managers approve the request.
The workflow has an Evaluation and an Approval stage.
You need to develop the workflow by using SharePoint Designer.
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:
* Create the stages Evaluation and approval
* But the Evaluation stage before the Approval stage.
* End each stage with a Transition to Stage.

Note: Microsoft has introduced the concept of stages. These are containers in the workflow that allow you to structure the workflow to flow from one stage to another. The use of stages mean that you can create a workflow very similar to a state machine workflow.
A stage can hold one or more workflow actions, and will also have only one Transition to stage area. The Transition to stage area defines how the workflow exits the stage after its actions have been processed. The stage can be configured to transition to another stage, or to end the workflow.

Example:

Reference: Workflow Changes in SharePoint Designer 2013

Question 18
Which tool should you use?
You plan to create a SharePoint Business Process Automation (BPA) project.
You need to process items in queues on a configurable schedule.
Which tool should you use?
A. Remote Event Receiver
B. Work Item Timer Job
C. Out-of-the-box workflow
D. SharePoint Designer workflow

Correct Answer: B
Explanation/Reference:
A Work Item Timer Job can be scheduled to run operations in SharePoint. A Work Item Timer Job is essentially a queue where you add list items that need to be processed. When the Work Item Timer Job runs, it pulls items from the queue and process the item. When complete, the item is removed from the queue (if you want) so it is not processed again.
Reference: ALL ABOUT SHAREPOINT WORK ITEM TIMER JOBS

Question 19
Which four actions should you perform in sequence?
You plan to create a search-driven navigation that supports the Cross-site Publishing Feature.
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:

Explanation/Reference:

Note:
Box 1: Add a Content Search Web Part to a page
Box 2-3: Configure the query for a Content Search Web Part
In the Web Part, click the Content Search Web Part Menu arrow, and then click Edit Web Part.
In the Web Part tool pane, in the Properties section, in the Search Criteria section, click Change query. Edit and change the query.
Box 4: (Search Result Web Part)
Here are some tools that make Cross-Site Publishing happen.
/ Content Search Web Part:
It allows to build your own query using a wizard, this means fetching the content you want to see, and then allows you to display them using predefined display templates. It uses Search to query, which therefore allows us to show content from another Site.
/ Search Results Web Part:
It can either show the results of a typed query in the Search Box, which is the traditional Search Results we know. But, and this is key, the Search Results also allows you to build a Query using the same Query Builder in the Content Search. In fact, I have found the Search Results to offer 95% of the same functionality as the Content Search. Therefore, it can also be used in Cross-Site Publishing Scenarios.
Reference: Configure Search Web Parts in SharePoint Server 2013

Question 20
Which Design Manager option should you use?
HOTSPOT
A company hosts its public website by using a SharePoint publishing site template. The website allows customers to browse and buy company products. The website user interface is optimized to support multiple browsers, smartphones and tablets.
You need to enable support for a new tablet type.
Which Design Manager option should you use? (To answer, select the appropriate link in the answer area.)
Hot Area:
The device channel feature is ideal for more complex SharePoint sites where you create a single site and author content for that site, but map the content to use different master pages and style sheets that are specific to a device or group of devices. By using the device channel feature you can choose to show different content to different device channels using the same page and page layout.

Reference: Configure a SharePoint site for mobile devices

Question 21
What should you do?
Adventure Works uses a SharePoint publishing site for an external website at www.adventureworks.com. The user interface is implemented by using HTML5, CSS 3, and JavaScript.
You need to ensure that the site designers have an efficient way to create and modify the JavaScript files.
What should you do?
A. Open the site in SharePoint Designer. From All Files, double-click the _cts folder and then select the MasterPages folder. Create a folder. Modify the JavaScript files by using Microsoft Notepad.
B. Copy all the JavaScript files to a document library and modify them directly by using Microsoft Notepad.
C. Open the site in SharePoint Designer. From Master Pages select the JavaScript files to modify them.
D. Set up a mapped network drive in Design Manager. Open the mapped drive and create a folder. Modify the JavaScript files by using Microsoft Notepad.

Correct Answer: C
Explanation/Reference:
Master Page - Use SharePoint Designer to add code to a master page when you want to code to be available on every page in a site. You can add the JavaScript inside of <SCRIPT> tags or link to a file that contains the JavaScript. Typically add your CSS just before the </HEAD> section and your JavaScript just before the </BODY> tag.
Reference: Adding JavaScript and CSS to SharePoint

Question 22
Which code segments should you include in Target 1, Target 2, Target 3, Target 4, Target 5 and Target 6 to complete the code?
DRAG DROP
You develop a SharePoint app to access data contained in a hosted SharePoint site.
You need to authorize the app to access the list items in a custom list on the host website.
You have the following code:
Which code segments should you include in Target 1, Target 2, Target 3, Target 4, Target 5 and Target 6 to complete the 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:
* (Target1) TokenHelper.TrustAllCertificates
If you are using Visual Studio 2012, it adds 'TrustAllCertificates' in TokenHelper.cs by default.
* (Target2, Target4, target5) TokenHelper.GetContextTokenFromRequest
* (Target3, Target5) TokenHelper.ReadAndValidateContextToken Example:
  string contextTokenString = TokenHelper.GetContextTokenFromRequest(Page.Request);
  SharePointContextToken contextToken = TokenHelper.ReadAndValidateContextToken(contextTokenString, Request.Url.Authority);
* (Target6) TokenHelper.GetAccessToken
  //Get user-app access token. string accessToken =

Question 23
Which technology should you use?
The Contoso SharePoint on-premise intranet portal stores content in 50 site collections. Contoso must display all content tagged with a metadata term on the main page of the portal.
You need to display all documents with the metadata term without using any custom code.
Which technology should you use?
A. Content Query Web Part (CQWP)
B. Content Search Web Part (CSWP)
C. TaxonomySession
D. CamlQuery

Correct Answer: B
Explanation/Reference:
CSWP can be configured to “see” items anywhere in SharePoint.
Incorrect:
Not A: CQWP and related SPSiteDataQuery can only search within the current site collection.
Not C: For TaxonomySession you would have to write code. Not D: The CamlQuery class just specifies a query on a list. Reference: Using the Content Search web part (and understanding SP2013 search)

Question 24
What should you do?
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. Use an app template and an app.master master file for branding.
B. 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.
C. 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.
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 the HTML page in a declarative manner.

Correct Answer: D
Explanation/Reference:
Microsoft allows developers to import a very basic version of the SharePoint 2013 chrome into their apps without having to manually create matching HTML controls. The functionality for this can be found in the SP.UI.Controls.js file located in the new _layouts/15 directory. To use the chrome control, first add a reference to SP.UI.Controls.js (make sure you’ve already loaded the requisite jQuery files and other dependencies), then add an empty <div> to your page markup at or near the top of the page.
Reference: Using the Chrome Control in SharePoint 2013 Apps

Question 25
What should you do?
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. Use an app template and an app.master master file for branding.
B. 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.
C. 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.
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: D
Explanation/Reference:
Microsoft allows developers to import a very basic version of the SharePoint 2013 chrome into their apps without having to manually create matching HTML controls. The functionality for this can be found in the SP.UI.Controls.js file located in the new _layouts/15 directory. To use the chrome control, first add a reference to SP.UI.Controls.js (make sure you’ve already loaded the requisite jQuery files and other dependencies), then add an empty <div> to your page markup at or near the top of the page.
Reference: Using the Chrome Control in SharePoint 2013 Apps

Question 26
How should you configure permissions in the app manifest?
HOTSPOT
You develop an autohosted app for SharePoint.
The app will access SharePoint data in the host web.
You need to configure the minimum required data access permissions for the app.
How should you configure permissions in the app manifest? (To answer, select the appropriate option from each drop-down list in the answer area.)

<table>
<thead>
<tr>
<th>Scope</th>
<th>Permissions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Connectivity Services (BC)</td>
<td>FullControl</td>
</tr>
<tr>
<td>Search</td>
<td>Manage</td>
</tr>
<tr>
<td>Web</td>
<td>Read</td>
</tr>
<tr>
<td>Workflow</td>
<td>Write</td>
</tr>
</tbody>
</table>

Correct Answer: Business Connectivity Services (BC) - FullControl, Search - Manage, Web - Read, Workflow - Write
Correct Answer:

<table>
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<td>Search</td>
<td>Manage</td>
</tr>
<tr>
<td>Web</td>
<td>Read</td>
</tr>
<tr>
<td>Workflow</td>
<td>Write</td>
</tr>
</tbody>
</table>

Explanation/Reference:
* SharePoint supports four different permission scopes within the content database and tenancy:
  / website
  The website where the app is installed. Includes all children of this scope.
  / tenancy
  / site collection
  / list
* Minimal permission would be read.

Note: For each scope, an app can have the following rights: Read, Write, Manage, FullControl Reference: App permissions in SharePoint 2013

Question 27
Which code segments should you include in Target 1, Target 2, Target 3, Target 4, Target 5 and Target 6 to complete the code?

DRAG DROP
You have a large list that contains more than 5,000 list items.
You need to iterate through the list by using the Content Iterator to avoid getting an exception.
You have the following code:

string Target 1 = "<View/>";
Target 2 iterator = new Target 3();
SPQuery listQuery = new SPQuery();
listQuery.Query = Target 4;
SPList list = Target 5.Current.Web.Lists["vIndividualCustomer"];
Iterator Target 6(list,
listQuery,
processItem,
ProcessError
);

Which code segments should you include in Target 1, Target 2, Target 3, Target 4, Target 5 and Target 6 to complete the 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:
Question 28
What should you do?
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 "/_layouts/masterpages/" 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
Explanation/Reference:
Note:
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 etc.
E (note): Let's say you created a new Master Page/Theme/CSS for your SharePoint site and want to apply them across your site (including all your subsites as well). This can be easily done from Site Settings -> Look & Feel -> Master Page.
B: Usually you'll set the master page as both default and custom master page.
Reference: How to: Convert an HTML file into a master page in SharePoint 2013; How to: Create a minimal master page in SharePoint 2013

Question 29
Which Windows PowerShell cmdlets should you run?
You have an app named TaskManagerApp that is 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. Which Windows PowerShell cmdlets should you run?
**Question 30**

What should you do?

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 s4-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: C

Explanation/Reference:

If you designed a custom master page for your SharePoint 2010 and the ribbon is in your way, SharePoint has a built-in control that lets you hide it from anonymous users in few easy steps. Open and check-out your master page, find where your ribbon control starts or look for `<WebPartPages:SPWebPartManager id="m" runat="Server">`. Place this control below `<SharePoint:SPSecurityTrimmedControl runat="server" Permissions="AddAndCustomizePages">`. Find where your ribbon control ends or look for `<div id=s4-workspace>` and place the closing control above it `<SharePoint:SPSecurityTrimmedControl>`.

Save, check-in the master page and publish it to see the changes. From now on, only logged in users with the right permissions will be able to see the ribbon on the top.

Incorrect:

Not A: Permission should be set to AddAndCustomizePages not ManageSubWeb. Reference: SharePoint, Hide the Ribbon from Anonymous Users

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**Question 31**

Which three actions should you perform in sequence?

**DRAG DROP**

You plan to use an app event receiver in conjunction with a remote event receiver.

You need to create the remote event receiver by using Visual Studio 2012.

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.)

A. Get-SPAppInstance
B. Get-SPWebApplication
C. Disable-SPFeature
D. Uninstall-SPAppInstance
E. Use the Get-AppInstance cmdlet to get a collection of app instances that are installed on an SPWeb object.
F. Use the Uninstall-SPAppInstance cmdlet to uninstall an instance of an app. This cmdlet is required to be run before a migration process.

Correct Answer: A, B, D

Explanation/Reference:

`$instance = Get-SPAppInstance -AppInstanceId $instance.Id Uninstall-SPAppInstance -Identity $spapp` This example uninstalls an instance of an app.

---

Incorrect:

Not B, not D: get-SPWebApplication

The Get-SPWebApplication cmdlet returns all Web applications that match the scope given by the Identity parameter. The Identity can be the name, URL, or GUID of the Web application. If no Identity is specified, all Web applications are returned.

EXAMPLE 1—

Sw = Get-SPWebApplication http://sitename

This example gets the Web application for http://sitename and stores it in a variable.

Not C: Disable-SPFeature

The Disable-SPFeature cmdlet disables a SharePoint Feature at the given scope.

Reference: Uninstall-SPAppInstance
Select and Place:

Correct Answer:

Explanation/Reference:

Note:
- To handle events that occur to items in apps for SharePoint
1. In Visual Studio, open Solution Explorer, and then choose the project node of the app for SharePoint.
2. On the menu bar, choose Project, Add New Item.
3. In the Templates pane, choose Remote Event Receiver, specify a name in the Name box, and then choose the Add button. The SharePoint Customization Wizard appears.
4. On the Choose Event Receiver Settings page, choose an event receiver type, such as List Item Events.
5. Set the event source to a list whose events you want to handle, such as Announcements.
6. In the list of events to handle, select the check box next to each event that you want to handle, such as An item was added, and then choose the Finish button.

A web application is created with a web service that contains a code file.
7. In the code file for the web service, add code that will execute every time the events that you specified occur.

Reference: How to: Create a remote event receiver

Question 32:
What will the designer-generated XML look like?

DRAO DJRDP
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:
Question 33
How should you complete the relevant code?
DRAG DROP
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.)
Select and Place:
Correct Answer:

Question 34

Which scopes and permissions should you use?

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.)

Hot Area:
Box 1: Search QueryAsUserIgnoreAppPrincipal
To provide proper permissions to have search in SharePoint hosted app, open the Appmanifest.xml and provide the permissions to search as scope and select the permission “QueryAsUserIgnoreAppPrincipal”.

Box 2: BCS
Business Connectivity Services (BCS) need read as the app must be able to read product information from a custom SQL Server database by using an external list.

Box 3: Write
User Profiles scope require write as the app must be able to read from and write to the user profile.

Box 4: Manage
Web permissions should be manage as the app must be able to make changes to lists by using the minimum permissions necessary.

Box 5: Taxonomy
For taxonomy, only rights for Read and Write are available. Here read is fine as the app must be able to read enterprise keywords Reference: App permissions in SharePoint 2013

Question 35
How should you complete the relevant code?

DRAG DROP
You create a solution to access data contained in SharePoint by using a client-side object model (CSOM).

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

Correct Answer: C

Explanation/Reference:
Must use _api/web/lists:
To retrieve all of the lists in a specific SharePoint site, you would make a GET request to http:///_api/web/lists.
Incorrect:
Not B: The method must be GET (not POST).
Reference: How to: Complete basic operations using SharePoint 2013 REST endpoints

Question 37
How should you complete the relevant code?

HOTSPOT
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.)

Hot Area:
Correct Answer:

```csharp
public class MyWorkItemTimerJob : SPWorkItemJobDefinition
{
    public static readonly string WorkItemJobDisplayName = "Contoso Work Item Time Job";
    public static readonly Guid WorkItemTypeID = new Guid("{4A359645-E5EF-44F3-9523-5CB43D5C0A89})");
    public MyWorkItemTimerJob()
    {
        public override Guid WorkItemType()
        {
            public override void Execute(SPJobState jobState)
        }
        
        public override string DisplayName
        {
        }
        
        public int BatchFetchLimit
        {
            public override int BatchFetchLimit = 50;
        }
        
        public override void Execute(...)
        {
            protected override bool ProcessWorkItem(...)
        }
        
        private bool IsTwoWeeksOldNow(SPLListItem anItem)
    }
}
```
You need to write a work-item timer job. Box 2: BatchFetchLimit=50
For performance reasons, fewer than 50 documents at a time should be processed. Box 3: ProcessWorkItem
For Work Item Timer Jobs you use the ProcessWorkItem method to execute your logic. Reference: Processing items with Work Item Timer Jobs in SharePoint 2010

**Question 38**
Which four actions should you perform in sequence?

**DRAG DROP**
You need to create workflows for your business processes by using the least amount of development effort.
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:

Explanation/Reference:
Box 1: Verify and use the out-of-the-box workflows for the objective. First try to use only out-of-the-box workflows.
Box 2: Verify and use SharePoint Designer workflows without creating any custom activities in Visual Studio. If that is not enough use SharePoint Designer workflows as well.
Box 3: Use Microsoft Visual Studio 2012 to create the workflow custom activities. If custom activities are required then use Microsoft Visual Studio 2012 to create these activities.
Box 4: Use SharePoint Designer to create a workflow definition by using the activities. Then use these activities in SharePoint Designer workflows. Note:
* SharePoint Designer can consume and implement custom actions that are created and deployed by using Visual Studio.
* SharePoint 2013 supports two primary workflow development environments for authoring workflows: SharePoint Designer and Visual Studio.
* Among the greatest advantages of the workflow framework in SharePoint 2013 is the ease with which information workers can use the no-code environment of SharePoint Designer to create rich and powerful workflows.
Reference: Develop SharePoint 2013 workflows using Visual Studio

**Question 39**
What should you do?

A company has a SharePoint farm that has the following configuration: SPWFE1 and SPWFE2 are configured as front-end web servers.
SPAPP1 and SPAPP2 are configured as application servers.
New servers will be added to the farm.
You implement a solution that contains a custom navigation provider.
You need to register a custom navigation provider by using the least amount of administrative effort.
What should you do?
A. Create a web.<solutionname>.xml file in the CONFIG directory and run the copyapppoolcontentStsadm command.
B. Edit the ApplicationHost.config file on each SharePoint server.
C. Edit the web.config file for the web application on all SharePoint servers.
D. Use the SPWebConfigModification class.
Correct Answer: D
Explanation/Reference:
In Microsoft SharePoint Foundation, one way to modify web.config settings is to use the SPWebConfigModification class of the Microsoft.SharePoint.Administration namespace, which allows you to dynamically register entities. These modifications are persisted in the configuration database where they function as a kind of virtual web.config that effectively serves as the final layer of the .config file stack for the SharePoint Foundation web application. The changes become effective when the SPWebService.ApplyWebConfigModifications method is called.
Reference: How to: Add and Remove Web.config Settings Programmatically

Question 40
What should you do?
DRAG DROP
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:

Correct Answer:

Explanation/Reference:
Box 1, box 4: Provider-hosted apps
Provider-hosted apps for SharePoint include components that are deployed and hosted outside the SharePoint farm. They are installed to the host web, but their remote components are hosted on another server.
Box 2: Autohosted
With auto-hosted apps all Windows Azure and Windows Azure SQL Database components are provisioned for you when the app is installed and the Windows Azure Web Sites infrastructure handles load balancing and other important maintenance tasks for you.
Box 3: SharePoint-hosted SharePoint-hosted apps
Start with the simplest option: SharePoint-hosted apps, or apps where all components are hosted on either an on-premises or Office 365 SharePoint farm.
Note: Apps in SharePoint
SharePoint 2013 app model has three types of hosting model.
a. SharePoint Hosted Application.
b. Auto Hosted Application.
c. Provider Hosted Application.
Reference: Choose patterns for developing and hosting your app for SharePoint
Question 41
What should you do?
You must select an app model to deploy apps to an Office 365 small business tenant. The business logic of the apps is located in a remote web application.
What should you do?
A. Create a SharePoint-hosted app. Implement the business logic by using JavaScript.
B. Develop provider-hosted apps and integrate data sources with the business logic by using OData.
C. Deploy the business logic to the host web by using a Full Trust SharePoint solution.
D. Develop an OData service provider infrastructure and publish the provider to the _layouts directory.
Correct Answer: B
Explanation/Reference:
Provider Hosted Application
Provider hosted apps are also a part of cloud hosting model, where app can be hosted on any remote web platform such as IIS server. And these apps are made available on deploying it on cloud i.e. using SharePoint online, Office365 site, or windows azure in case of Auto hosting. It interacts with SharePoint 2013 by using one of the SharePoint client object models or its REST/OData-based web service. Depending on the scenario it gains authorization to SharePoint data using either the SharePoint 2013 implementation of the OAuth standard or a JavaScript cross-domain library.
Note: Apps in SharePoint
SharePoint 2013 app model has three types of hosting model.
  a. SharePoint Hosted Application.
  b. Auto Hosted Application.
  c. Provider Hosted Application.
Incorrect:
Not C: When you use the full-trust execution model, you deploy your assemblies to the global assembly cache on each Web front-end server and application server in the server farm. The SharePoint Web application process loads the assembly from the global assembly cache and your code runs with full trust—in other words, it runs without any code access security restrictions.
Reference: Step by step create provider hosted application using SharePoint 2013

Question 42
What should you do?
DRAG DROP
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:

Correct Answer:

Explanation/Reference:
* Get-SPAppInstance
Use the Get-AppInstance cmdlet to get a collection of app instances that are installed on an SPWeb object.
* Uninstall-SPAppInstance
Use the Uninstall-SPAppInstance cmdlet to uninstall an instance of an app. This cmdlet is required to be run before a migration process.
———EXAMPLE———
$Instance = Get-SPAppInstance -Web http://sharepoint.contoso.com/apps | where {$_._Title -eq 'TaskManager'}
Uninstall-SPAppInstance -Identity $spapp
Question 43
How should you complete the relevant code?

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:

Correct Answer:

```
using (ClientContext context = new ClientContext("http://sharepoint.local")) etc.

private void CreateColorsTermSet(string siteUrl)
{
    ClientContext clientContext = new ClientContext(siteUrl);
    TaxonomySession taxonomySession = TaxonomySession.GetTaxonomySession(clientContext); clientContext.Load(taxonomySession, ts => ts.TermStores.Include(st => st.Name, st => st.Groups.Include(g => g.Name)),
    clientContext.ExecuteQuery();
    Box 4: GetTermSetsByName
    SP.Taxonomy.TaxonomySession.GetTermSetsByName Method
    Gets all TermSet objects from all TermStore objects that have a name in the specified language. Reference: Managed metadata and navigation in SharePoint 2013
```
Question 44
What should you do?
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: D
Explanation
Explanation/Reference:
If you designed a custom master page for your SharePoint 2010 and the ribbon is in your way, SharePoint has a built-in control that lets you hide it from anonymous users in few easy steps. Open and check out your master page, find where your ribbon control starts or look for ®WebPartPages:SPWebPartManager id="m" runat="Server". Place this control below <Sharepoint:SPSecurityTrimmedControl runat="server" Permissions="AddAndCustomizePages">. Find where your ribbon control ends or look for <div id=s4-workspace> and place the closing control above it ®SharePoint:SPSecurityTrimmedControl>. Save, check-in the master page and publish it to see the changes. From now on, only logged in users with the right permissions will be able to see the ribbon on the top.
Incorrect:
Not B: Permission should be set to AddAndCustomizePages not ManageSubWeb.

Question 45
Which five actions should you perform in sequence?
DRAG DROP
Adventure Works uses SharePoint for managing project-related documents, information sharing, and tasks management. You develop a SharePoint-hosted app named Tasks Viewer 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:

Box 4: Stop Inheriting Permission
Click on the Stop Inheriting Permissions option. Click OK on the Message.

Box 5:
Example: Remove all the current users and groups (except for myself) and add three specific users. Use the Remove User Permissions to remove users and Grant Permissions to add users. You will see the below:

Explanation/Reference:
Box 4: Stop Inheriting Permission
Click on the Stop Inheriting Permissions option. Click OK on the Message.

Box 5:
Example: Remove all the current users and groups (except for myself) and add three specific users. Use the Remove User Permissions to remove users and Grant Permissions to add users. You will see the below:
Question 46
What should you do?
Adventure Works uses SharePoint to store product and order information. Product managers visit the Products list to see the status of each product. They request a feature that will allow them to easily see the recent and old product orders without opening the Products list. The products orders page is located at /sitepages/productorders.aspx, and the product order history page is located at /sitespages/productordershistory.aspx. Both pages require a query string parameter named ProductID.
You need to add custom actions to the Products list by using the least amount of administrative effort.

What should you do?
A. Add an empty element to the SharePoint project. Add a <CustomAction> tag, set the Location element to EditControlBlock, and then use the <UrlAction> tag for a redirect to the custom page.
B. Create a Windows Application and add a reference to Microsoft.SharePoint.Portal.CustomActions.dll and use the SPCustomActions class to add a custom action.
C. Open the site in SharePoint Designer. Create a custom List Item Display Template and then apply it to the Products List View Web Part.
D. Create a visual Web Part. Use a grid view with a template column and hyperlink, and databind the Products list. Add the Web Part to the allitems.aspx page of the Products list.

Correct Answer: C
Explanation/Reference:
1. To add a menu item custom action feature to the app for SharePoint project Right-click the app for SharePoint project, and add a new Menu Item Custom Action item.
2. Select the host web to expose the custom action and choose a list template and custom list as custom action scope to then click on Next button.
3. Enter the menu item text you want to show and page in App where you want to redirect when the user selects the Menu item then click on the Finish button.

Example:

Note: When you are creating an app for SharePoint, custom actions let you interact with the lists and the ribbon in the host web. A custom action deploys to the host web when end users install your app. Custom actions can open a remote webpage and pass information through the query string.
There are two types of custom actions available for apps: Ribbon and Menu Item custom actions.

Reference: Custom actions in SharePoint 2013
Question 47
Which scope should you use?
HOTSPOT
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.)
Hot Area:

Correct Answer:

Explanation/Reference:
SharePoint Features can be scoped to the Farm, Web Application, Site Collection, and Web Site level depending on the purpose of the feature. Web Site scoped Feature (Scope=“Web”):
A Web Site scoped Feature is one that can be activated only at the individual Web site level. List templates, list instances, custom actions, event receivers, etc. are the most common elements for web site scoped features.
Reference: Explain it to me: SharePoint deployment scope, solution and features

Question 48
What should you do?
DRAG DROP
A company uses SharePoint and Microsoft Dynamics CRM for collaboration and customer relationship management. The company uses Active Directory Domain Services (AD DS) for identity management. SharePoint and Microsoft Dynamics CRM are configured to use claims-based authentication. The company wants to authorize user access to SharePoint sites by using roles defined in Microsoft Dynamics CRM.
You create a custom claims provider. The provider adds a claim to the claim token for each role a user has in Microsoft Dynamics CRM. The provider also allows a site administrator to find and select roles from Microsoft Dynamics CRM to authorize user access. The custom claims provider must be created as a class library project to meet the unit testing requirements of the company. The custom claims provider project is complete and ready to be packaged for deployment.
You need to package and deploy the custom claims provider.
What should you do? (To answer, drag the appropriate actions to the correct location or locations in the answer area. Each action 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:
Add Assembly to SharePoint Project:

The SPClaimProviderManager.AddClaimProvider method adds a claims provider to be used by the local farm.

Generate Solution:

Install and deploy the solution (that will automatically activate the "LDAPCP" farm-scoped feature):

Install-SPSolution -Identity "LDAPCP.wsp" -GACDeployment

Deploy Solution:

When you save your site as a template, you create a Web Solution Package, or WSP. A WSP is a CAB file that uses the solution manifest. The solution that you create is stored in the solutions gallery for the SharePoint site collection. Once you save the template, a solution file (.wsp) is created and stored in the solutions gallery where you can download or activate the solution.

Reference: How to: Create a claims provider in SharePoint 2013

Question 49

What should you do?

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)
{
    try
    {
        siteCollection = null;
        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:
Need to manually dispose of the siteCollection instance. This can be done through a finally statement.

Note:
* Try and finally blocks or a using statement would be required to avoid potential leaks when you create a disposable object within a foreach block, as shown in the following code example.

```csharp
SPWebApplication webApp = siteCollectionOuter.WebApplication; SPSiteCollection siteCollections = webApp.Sites;
sPSite siteCollectionInner = null;
foreach (siteCollectionInner in siteCollections)
{
    try //Should be first statement after foreach.
        {
            Console.WriteLine(siteCollectionInner.Url);
            //Exception occurs here.
        }
    finally
        
            if (siteCollectionInner != null) siteCollectionInner.Dispose();
    
}
```

* Why Dispose?
Several of the Windows SharePoint Services objects, primarily the SPSite class and SPWeb class objects, are created as unmanaged objects. However, these objects use unmanaged code and memory to perform the majority of their work. The managed part of the object is much smaller than the unmanaged part. Because the smaller managed part does not put memory pressure on the garbage collector, the garbage collector does not release the object from memory in a timely manner. The object’s use of a large amount of unmanaged memory can cause some of the unusual behaviors described earlier. Calling applications that work with IDisposable objects in Windows SharePoint Services must dispose of the objects when the applications finish using them. You should not rely on the garbage collector to release them from memory automatically.
Reference: Best Practices: Using Disposable Windows SharePoint Services Objects

**Question 50**
Where should you redeploy the solution, and which process should you debug?

**DRAG DROP**
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 scroll to view content.)
Select and Place:

Correct Answer:

**Explanation/Reference:**
* The Visual Studio debugger usually attaches to the Windows SharePoint Services process (w3wp.exe). If the project type lets you change the Sandboxed Solution property and its value is set to true, then the debugger attaches to a different process (SPUCWorkerProcess.exe).
* Why Sandboxed Solutions?
In WSS 3.0, solutions could be deployed only to the farm level. This meant that potentially harmful or destabilizing solutions could be deployed that...
affected the whole Web farm and all of the other site collections and applications that run under it. However, by using sandboxed solutions, you can deploy your solutions to a subarea of the farm, a specific site collection. To provide additional protection, the solution’s assembly is not loaded into the main IIS process (w3wp.exe). Instead, it is loaded into a separate process (SPUCWorkerProcess.exe). This process is monitored and implements quotas and throttling to protect the farm from sandboxed solutions that perform harmful activities, such as running tight loops that consume CPU cycles.

Box 2: Solution Gallery
The solution gallery is a document library stored in the root Web of the SharePoint site. The solution gallery replaces site templates and supports solution packages. When a SharePoint solution package (.wsp) file is uploaded, it is processed as a sandboxed solution.
Reference: Debugging SharePoint Solutions: Sandboxed Solution Considerations

Question 51
What will the designer-generated XML look like?
DRAG DROP
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:
Question 52

What should you do?

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: BC

Explanation/Reference:

By default, sandboxed solutions are disabled. Enable sandboxed solutions on every application server on which you want to run sandboxed solutions.

To enable sandboxed solutions by using Central Administration

1. Verify that you have the following administrative credentials:
   - You must be a member of the Farm Administrators group on the computer that is running the SharePoint Central Administration Web site.
2. On the home page of the Central Administration Web site, in the System Settings section, click Manage services on server.
3. On the Services on Server page, in the Server box, select the server on which you want to enable sandboxed solutions.
4. In the Microsoft SharePoint Foundation Sandboxed Code Service row, in the Action column, click Start.
5. Repeat steps 3 and 4 for each server on which you want to enable sandboxed solutions.

Reference: Enable sandboxed solutions on the farm (SharePoint Server 2010)

---

Question 53

What should you do?

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.

* Define content types
If your group works with several types of files, such as worksheets, presentations, and documents, you can extend the functionality of your library by enabling and defining multiple content types. Content types add flexibility and consistency across multiple libraries. Each content type can specify a template and even workflow processes. The templates act as a starting point, for formatting and any boilerplate text and for properties that apply to the documents of that type, such as department name or contract number.

Reference: Best practices for creating and managing team sites

C: To map a master page to a SharePoint site
1. In Site Settings for the designated site, under the Look and Feel section, choose Master Page.
2. On Site Master Page Settings, select one of the two options for the Site Master Page or System Master Page sections:
   2a. Inherit site master page from parent site Choose this option if you are configuring a child SharePoint site and want to use the parent master page.
   2b. Specify a master page to be used by this site and all sites that inherit from it Choose this option if you want to map a specific master page to the site, or if you want to map a specific master page for administrative pages. A drop-down box named Default or All Channels is available for you, depending on your site or system configuration, so you can select a specific master page stored in the master page gallery. Select the desired master page from the drop-down box.
3. Choose OK.

Reference: How to: Apply a master page to a site in SharePoint 2013

D: * A Composed Look is made up of:
   Master Pages CSS
   Color palettes Font palettes Background image

* This means we can package a master page with its CSS, color palettes, font palettes and background image and have it deployed in the enterprise. With Composed Looks, you can now offer your Power Users a list of branded looks and allow them to choose an appropriate look as well as giving them limited control to make changes to the colors, image or font. You could be providing the Composed Looks.

Reference: Step by Step: Create a SharePoint 2013 Composed Look

Question 54
Which five actions should you perform in sequence?

DRAG DROP
You need to create a workflow custom activity to use in a custom action in SharePoint by using Microsoft Visual Studio 2012.

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:**

Note:
Box 1 (Visual Studio): Add a new item named Workflow Custom Activity to the project.
Visual Studio 2012 now provides a "workflow custom activity" item type within SharePoint projects. You can use the item type to create a custom activity that you can then import as a custom action in SharePoint Designer 2013.
Box 2 (Visual Studio): Package the custom activity as a SharePoint solution package (.wsp) file.
Custom actions are packaged and deployed as SharePoint Features in SharePoint solution package (.wsp) files.
Box 3: (Visual studio) Deploy the SharePoint solution package (.wsp) file.
After you create your custom workflow activity, you can then package and deploy it. After it is deployed, the custom activity can be consumed by SharePoint Designer 2013 as a custom action.
Box 4: Activate the feature
After a solution package (.wsp) file is uploaded and activated on the target website (that is, the SharePoint site collection), the features that are contained in the package are installed and available for activation. After the custom actions are activated, they are available for use in a workflow.
Box 5: Create a new custom action by using SharePoint Designer.
* SharePoint Designer provides a collection of workflow actions that are available through the Workflow Designer user interface (UI). Although the range of workflow actions that are included in SharePoint Designer is extensive, it is nevertheless finite. In some cases, you may need to model a business process whose requirements are not met by the existing library of workflow actions that are available in SharePoint Designer. Recognizing that business processes often have specialized requirements, SharePoint 2013 lets you create custom workflow actions. You can develop these custom actions by using Visual Studio, and then package and deploy them to SharePoint. At that point, the custom action becomes available to workflow authors in SharePoint Designer, exactly as if it were among the library of existing actions.
Reference: How to: Build and deploy workflow custom actions
Reference: Exercise: Implement a Custom Workflow Action in Visual Studio

**Question 55**
Which activity should you use?

**HOTSPOT**
A company's IT department implements a Help Desk Ticketing system that involves workflow development by using SharePoint Designer and InfoPath. The Help Desk Ticket workflow involves multiple steps and tasks that have serial approvals of multiple users and groups with custom task email messages.
The Approver accidentally rejects a workflow step, and the workflow has stopped. The Approver then corrects the step. You need to continue the workflow to reflect the updated approval.
Which activity should you use? (To answer, select the appropriate action from the list of actions in the answer area.)

**Hot Area:**
There is an action to Set Workflow Status under Core Actions, in both SharePoint 2013 Workflow platform and SharePoint 2010 Workflow platform.

Reference: How to set Approval Status to approve/reject after approve/reject the request in SharePoint Online 2013 Designer Workflow?

**Question 56**

Which form type should you use?

You develop a SharePoint app to create an approval workflow for expense reports. The app must collect user input before starting the workflow. You need to use ASP.NET forms in the workflow.

Which form type should you use?

A. Workflow input form  
B. Workflow initiation form  
C. Workflow task form  
D. Workflow modification form

**Correct Answer:** B

**Explanation/Reference:**

You may want your workflow to collect information from the person who starts it, and then reference this information later in the workflow. For example, imagine that you are designing a workflow that assigns a document review task. In some workflows of this kind, it might make sense to always automatically assign the review task to the same participant and to always use the same formula for calculating the due date. But in your workflow, you want the person who manually starts the workflow to specify both the reviewer and the due date. You can set this up by adding custom fields to the workflow initiation form and requiring that the workflow be started manually.
Question 57
Which shape should you use?
You plan to create a workflow design by using Microsoft Visio 2013 and then import the design into SharePoint Designer 2013. You need to ensure that you have repetition capability.
Which shape should you use?
A. Stage  
B. Assign a Task  
C. Step  
D. Loop
Correct Answer: D
Explanation/Reference:
Loop shapes
Loops are a series of connected shapes that will execute as a loop, returning from the last shape in the series to the first, until a condition is satisfied.
Note: Workflows in SharePoint Designer 2013 now include the notions of stages, loops, and steps. The SharePoint 2013 Workflow template that is included in Visio 2013 also uses stages, loops, and steps as logical building blocks for creating a workflow.
Reference: Workflow development in SharePoint Designer 2013 and Visio 2013

Question 58
Which tool should you use?
You plan to create a SharePoint Business Process Automation (BPA) project. You need to process items for approval with the least amount of developer effort.
Which tool should you use?
A. Remote Event Receiver  
B. Out-of-the-box workflow  
C. SharePoint Designer workflow  
D. Work Item Timer Job
Correct Answer: B
Explanation/Reference:
Workflows in SharePoint 2013 allow you to model and automate business processes. These business processes can be as simple as a document approval process with a single approver (shown in example below), as complex as customer-facing product catalog using web service calls and database support, or as formidable as virtually any structured business process, full of conditions, loops, user inputs, tasks, and custom actions.
Example: Simple SharePoint workflow
Question 59
Which three actions should you perform in sequence?

You develop a reusable workflow on a development site by using SharePoint Designer. The workflow must be made available to a test site on a different SharePoint environment. You need to deploy and start the workflow on the test site by using Microsoft Visual Studio 2012. 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:

- Use SharePoint Designer to save the workflow as a .wsp solution package.
- Use Visual Studio to activate the workflow feature.
- Use Visual Studio to activate the solution package.
- Upload the solution package to the desired site.
- Import the solution package into Visual Studio.
- Use Visual Studio to export the workflow as a .wsp solution package.

Correct Answer:

- Use SharePoint Designer to save the workflow as a .wsp solution package.
- Use Visual Studio to activate the solution package.
- Upload the solution package to the desired site.
- Import the solution package into Visual Studio.
- Use Visual Studio to export the workflow as a .wsp solution package.

Explanation/Reference:

Note:
Box 1 (SharePoint Designer): Use SharePoint Designer to save the workflow as a .wsp solution package. Visual Studio allows you to import reusable workflows created in SharePoint Designer and convert them to code workflows for use in your SharePoint sites.

Box 2 (Visual Studio): Upload the solution package to the desired site.

Box 3 (Visual Studio): Use Visual Studio to activate the solution package. After a solution package (.wsp) file is uploaded and activated on the target website (that is, the SharePoint site collection), the features that are contained in the package are installed and available for activation.

Note 2: Steps:
1. Creating a simple, reusable workflow in SharePoint Designer.
2. Exporting the SharePoint Designer reusable workflow to a .wsp file and into SharePoint.
3. Importing the .wsp file into Visual Studio by using the Import Reusable Workflow project.
4. Altering the workflow by adding code.
5. Using the imported workflow in a SharePoint site.

* When you create a declarative workflow in Microsoft SharePoint® Designer 2010, you can save the workflow as a template in a SharePoint solution package (.wsp) file. In some circumstances, you may need to import your workflow template into the Microsoft Visual Studio® 2010 development system, and repackage it as a Visual Studio project—for example, if you want to create a solution package that contains both a declarative workflow and custom-coded workflow activities.

* Visual Studio SharePoint workflow projects deploy just like other Visual Studio SharePoint projects.

Reference: How to: Build and deploy workflow custom actions; Walkthrough: Import a SharePoint Designer Reusable Workflow into Visual Studio.
Question 60
Which code segment should you include in Target 1, Target 2, Target 3, Target 4 and Target 5 to complete the code?

DRAG DROP
You need to create a collaboration template.

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

Select and Place:

Correct Answer:

Explanation/Reference:

Explanation:

Box 1: WebTemplate
Most of the features contained within the Team Site template are sufficient; however, a few additions to the template must be made to support the business requirements. In order to achieve this and ensure maximum portability, a web template based on the Team Site definition must be created.

Box 2: BaseTemplateName
Required. The internal name of the site definition on which the web template ultimately derives. This is the value of the Name attribute of the Template element in a WebTemp.xml file.

Box 3: Name
Required. The internal name of the web template.

Box 4: Title
Optional. Optional. The public name of the web template.

Box 5: DisplayCategory
Optional. Specifies the category in which the web template appears in the Microsoft SharePoint Foundation UI when users are selecting a type of website to create; for example, Collaboration, Meetings, or some other custom name. If it is not specified, the default is “Custom”.

Scenario: The LitwareWebTemplateFeature feature contains the Litware Team Site web template. Templates with this title must be available in the group Litware in the template selection.

Question 61
Which code segments should you include in Target 1 and Target 2 to complete the code?

You need to apply the Design Package to all of the required sites.

You have the following code:

```
<elements xmlns="http://schemas.microsoft.com/sharepoint/">
  <target name="Target 1">
    <wt_id>674-4554-aae3-4373a810e92c</wt_id>
    <!-- Other code here -->
  </target>
  <target name="Target 2">
    <!-- Other code here -->
  </target>
</elements>
```

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

Select and Place:

Correct Answer:

```
<TemplateName>
  "FeatureSiteTemplateAssociation"
</TemplateName>
```

Explanation/Reference:

* Scenario:
  / The design package must be automatically deployed each time a publishing site is created.
  * The FeatureSiteTemplateAssociation Element Associates the specified Features with the specified site definition configuration so that when Web sites are provisioning, the Features are automatically included in provisioning.

  TemplateName:
  Required Text. Specifies the name of the site definition configuration. SharePoint Foundation includes the following site definition configurations by default.
  STS#0 Team Site
  STS#1 Blank Site
  STS#2 Document Workspace
  MPS#0 Basic Meeting Workspace
  MPS#1 Blank Meeting Workspace
Question 62
Which code segment should you use?
You need to apply updates to only the sites that were created based on the Litware Team Site web template.
Which code segment should you use?

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

Correct Answer: A
Explanation/Reference:
Scenario:
In Element.xml file from Litware.Intranet.Templates.wsp we see:
<Property Name="Litware.teamsite.wt_ID" Type="string" Value="WTLitwareTeamSite" />

Question 63
Which code segments should you include in Target 1, Target 2, Target 3, Target 4, Target 5 and Target 6 to complete the code?
DRAG DROP
You need to ensure that all of the solutions are deployed in the correct order.
You have the following code:

Which code segments should you include in Target 1, Target 2, Target 3, Target 4, Target 5 and Target 6 to complete the code? (To answer, drag the appropriate code segments to the correct targets in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)
Select and Place:
Scenario: Deployment of the package containing the Litware web templates Litware.Intranet.Templates.wsp must be prevented if the core package (Target 5) is not deployed in order to prevent deployment errors and eventually damage on the site structure itself.

* (Target1, Target 6) ActivationDependencies Element (Feature)
  Specifies a list of features on which the activation of the current feature depends. Child element: ActivationDependency

* (Target 2) ActivationDependency
  Specifies the activation dependencies for a solution. Syntax:
  `<ActivationDependency SolutionId = string
  SolutionName = string // (Target 4) SolutionTitle = string
  SolutionUrl = string />`

Correct Answer:
Question 64
Which code segment should you include in Target 1 to complete the code?
 HOTSPOT
You create a document reporting Web Part for Marketing auditors.
You need to configure throttling for the Web Part. You insert the following code in line MA08
spQuery.QuerythrottleMode = Target 1
Which code segment should you include in Target 1 to complete the code? (To answer, select the appropriate option from the drop-down list in the
answer area.)
Hot Area:

Correct Answer:

Explanation/Reference:
The SPQueryThrottleOption enumeration has three values: Default, Override, and Strict. If you use the default value, the standard list view threshold
applies to all users except local server administrators, who are not bound by either threshold. If you set the query throttle mode to Override, users
who have the required permissions in the Web application user policy can query at the higher “auditors and administrators” threshold. Local server
administrators remain unbound by either threshold. Finally, if you set the query throttle mode to Strict, this closes down the local server administrator
loophole and the standard list view threshold applies to all users.
Scenario: Auditors have access to the page that provides statistics on Marketing documents. This page con-tains a report on document distribution
over projects and information about the most active doc-uments, the top inactive documents, and the most active users. Processing the queries can
result in working with huge result sets. You must ensure that the information on this page is always available and that the queries are not throttled.
The relevant code segment is available in the code sections area (MarketingAudit.ascx.cs).
Reference: Retrieve data more than the threshold limit

Question 65
Which option should you select?
 HOTSPOT
You need to ensure that users can sort files by using the Project 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:
* To improve the performance of a large list or library, you can index a column. Then you can use the indexed column to filter new or existing views of the list or library.
An indexed column is ordered.
Incorrect:
Column ordering is how the columns are ordered horizontally not how the records are ordered.

Question 66
Which scope option should you select?
HOTSPOT
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.)
Hot Area:
Correct Answer:
A Farm scoped Feature can be activated at the server farm level.

Scenario: The Litware Team Site template must be available for use in all site collections.

**Question 67**
Which option should you select first?

HOTSPOT
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.)

Hot Area:
Correct Answer:

**Explanation/Reference:**

With device channels in SharePoint 2013, you can render a single publishing site in multiple ways by using different designs that target different devices.

Device channels is part of the SharePoint 2013 publishing infrastructure that enables you to render certain site content, style your content, and even change images—while maintaining the same URL across a pool of different devices.

Note: When a user browses a SharePoint site from a mobile device such as a smartphone or tablet, the mobile browser submits to the site an HTTP GET request that includes a user agent string. This string contains information about the type of device that is trying to access the site. Based on that device substring, the device browser can be redirected to a specific master page view.

Scenario: It is essential that the new intranet supports a wide variety of mobile devices, platforms, and browsers. Reference: SharePoint 2013 Design Manager device channels

**Question 68**

How should you complete the relevant code?

**DRAG DROP**

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:

Correct Answer:

Explanation/Reference:
Scenario:
*A web template based on the Team Site definition must be created. A three-state workflow must be used to manage business processes. A customized default home page must be deployed by using a site feature.

* Feature IDs:
  * Three-state workflow: FDE5D850-671E-4143-950A-87B473922DC7
  * Litware Web Artifacts: DBF80SAB-03D9-43DC-9154-52D6AC346889

Question 69
What should you do?
You need to add the search box to the publishing site.
What should you do?
A. Generate a code snippet and paste it into the HTML file.
B. Edit the default.master master page and then add the search box control.
C. Add the Search Web Part to the Welcome page.
D. Edit the page layout.

Correct Answer: A

Explanation/Reference:
Scenario: A search box must be available on all publishing sites.
The publishing site design is delivered as a set of HTML files (litwarepublishing.html), CSS (Litwarepublishing.css), and image files from the marketing company.

Question 70
How should you complete the relevant code?

DRAG DROP
You need to create a collaboration template.
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:

Box 1: WebTemplate
Most of the features contained within the Team Site template are sufficient; however, a few additions to the template must be made to support the business requirements. In order to achieve this and ensure maximum portability, a web template based on the Team Site definition must be created.

Box 2: BaseTemplateName
Required. The internal name of the site definition on which the web template ultimately derives. This is the value of the Name attribute of the Template element in a WebTemplate.xml file.

Box 3: Name Attribute: Name
Required. The internal name of the web template.

Box 4: Title
Optional. The public name of the web template.

Box 5: DisplayCategory
Optional. Specifies the category in which the web template appears in the Microsoft SharePoint Foundation UI when users are selecting a type of website to create; for example, Collaboration, Meetings, or some other custom name. If it is not specified, the default is “Custom”.

Scenario: The LitwareWebTemplateFeature feature contains the Litware Team Site web template. Templates with this title must be available in the group Litware in the template selection.


Question 71
How should you complete the relevant code?
DRAG DROP
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:
Box 1: FeatureSiteTemplateAssociation
FeatureSiteTemplateAssociation Element associates the specified Features with the specified site definition configuration so that when Web sites are provisioned, the Features are automatically included.
Box 2: BLANKINTERNET#0
Site template BLANKINTERNET#0:
Publishing sub-sites can be created under this site. A Document and Picture Library are included for storing Web publishing assets. Reference: FeatureSiteTemplateAssociation Element (FeatureSiteTemplateAssociation); SharePoint 2010: Default Site Templates

Question 72
What should you do?
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:
Scenario:
Litware.Intranet.Templates contains the LitwareWebArtifacts hidden feature which contains code required to run after the provisioning is completed.

Question 73
What should you do?
You need to create a design package for the publishing sites.
What should you do?
A. Use SharePoint Designer to create master pages and a design package.
B. Use Visual Studio 2012 to create master pages and generate a design package.
C. Use display templates.
D. Use Design Manager.

Correct Answer: D
Explanation/Reference:
In SharePoint 2013, Design Manager can help web developers and designers build and export the visual design of a SharePoint site collection as a package. This package can easily be distributed to customers, or other designated groups, for installation on their site collections. This new feature reduces the complexity of transporting designs, and makes it easier for customers to outsource the visual design of their sites.

Scenario: During the creation and application of the design package to the publishing site, SharePoint 2013 out-of-the-box capabilities must be used as much as possible to ensure simple design changes and to simplify the upgrade procedures.
Reference: SharePoint 2013 Design Manager design packages

Question 74
Which code segment should you add at line UA11?
You need to set the appropriate permission levels. A variable named customRole references Wholesale.
Which code segment should you add at line UA11?
A. customRole.BasePermissions = SPBasePermissions.ViewPages;
B. customRole.BasePermissions = _permissions | SPBasePermissions.ViewFormPages;
C. customRole.BasePermissions = SPBasePermissions.EmptyMask | SPBasePermissions.ViewPages;
D. customRole.BasePermissions = _permissions | SPBasePermissions.ViewPages;

Correct Answer: D
Explanation/Reference:
* ViewPages, View pages in a Web site.
* Scenario: A custom role named Wholesale must be created. Wholesale customers must be assigned to this role in order to view the promotions page.
* Incorrect:
Not A, not C: The previous line, UA10, is: _permissions = this.GetExistingPermissions(); We should add this permission and the ViewPages permission.
Not B: ViewFormPages View forms, views, and application pages, and enumerate lists.
Reference: SPBasePermissions enumeration

Question 75
Which code segment should you insert at line MA08?
You create a document reporting Web Part for the Marketing team auditors.
You need to configure throttling for the Web Part.
Which code segment should you insert at line MA08?
A. spQuery.QueryThrottleMode=SPQueryThrottleOption.Strict;
B. spQuery.QueryThrottleMode=SPQueryThrottleOption.Override;
C. spQuery.QueryThrottleMode=SPQueryThrottleOption.Disable;
D. spQuery.QueryThrottleMode=SPQueryThrottleOption.Default;

Correct Answer: B
Explanation/Reference:
The SPQueryThrottleOption enumeration has three values: Default, Override, and Strict. If you use the default value, the standard list view threshold applies to all users except local server administrators, who are not bound by either threshold. If you set the query throttle mode to Override, users who have the required permissions in the Web application user policy can query at the higher “auditors and administrators” threshold. Local server administrators remain unbound by either threshold. Finally, if you set the query throttle mode to Strict, this closes down the local server administrator loophole and the standard list view threshold applies to all users.
Scenario: Auditors have access to the page that provides statistics on Marketing documents. This page contains a report on document distribution over projects and information about the most active documents, the top inactive documents, and the most active users. Processing the queries can result in working with huge result sets. You must ensure that the information on this page is always available and that the queries are not throttled.
The relevant code segment is available in the code sections area (MarketingAudit.ascx.cs).
Reference: Retrieve data more than the threshold limit

Question 76
Which code segment should you add at line UA09?
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
Explanation/Reference:
Add the ViewPages permission to the permissions of the variable _permissions.
Scenario: User Authorization
A custom role named Wholesale must be created. Wholesale customers must be assigned to this role in order to view the promotions page.
**Question 77**
Which two actions should you perform?
You must upgrade the existing version of the application to a newer version.
Which two actions should you perform? (Each correct answer presents part of the solution. Choose all that apply.)
A. Add the following code segment at line CX11:
B. Add the following code segment at CX13:
C. Use Microsoft Visual Studio to change the feature version to 1.5.0.0.
D. Use Microsoft Visual Studio to change the feature version to 1.5.
E. Add the following code segment at line CX11:

Correct Answer: BC
Explanation/Reference:
B: VersionRange Element specifies a range of previous versions of the Feature to which the upgrade actions should apply.
/ BeginVersion: Specifies the earliest version number to which the child upgrade elements will apply, in the format n.n.n.n, where each n can be up to four digits.
/ EndVersion: Specifies the earliest version number to which the upgrade will not apply. The format is n.n.n.n, where each n can be up to four digits.
C: Feature versions in Microsoft SharePoint Foundation are used to trigger Feature upgrade. If you update your Feature version but do not specify any Feature upgrade logic in the Feature.xml file, when the Feature upgrade runs, it simply updates the version number of your Feature. However, if you specify Feature upgrade logic, the upgrade code is executed and the version number is automatically updated as well.
Scenario: New Features
The first version (1.0.0.0) of the feature must support the addition of newer functionality when the feature is upgraded to version 1.5.0.0.
Reference: VersionRange Element (Feature); Best Practices for Using Feature Versions

**Question 78**
Which code segments should you include in Target 1, Target 2 and Target 3 to complete the code?
HOTSPOT
You need to add code at line UA11 to create the custom role.
You have the following code:
```
var customRole = new Target 1();
customRole.Name = "Wholesale";
customRole.Description = "Custom role for Wholesale customers";
```
Which code segments should you include in Target 1, Target 2 and Target 3 to complete the code? (To answer, select the appropriate code segment from each drop-down list in the answer area.)
Hot Area:
```
Explanation/Reference:
* SPRoleDefinition
The role definition, or permission level, is the list of rights associated with the role. For example, a user with the Read role can browse pages in the Web site and view items in lists. A role definition is a collection of rights bound to a specific object. Role definitions (for example, Full Control, Read, Contribute, Design, or Limited Access) are scoped to the Web site.

* SPWeb.Update
Scenario: User Authorization
A custom role named Wholesale must be created. Wholesale customers must be assigned to this role in order to view the promotions page.
Incorrect:
Not RoleDefinitionCollection: SPWeb does not have a member RoleDefinitionCollection. Not web.Commit(): SPWeb does not have a method Commit().
Not web.AddProperty(CustomRole, _permissions) Just need to create the role, not add permissions.
Reference: SPWeb members; SPWeb methods

Question 79
What should you do?
You need to automate the backup of a site collection.
What should you do? (Each correct answer presents part of the solution. Choose all that apply.)
A. Back up to a network folder.
B. Set the LockStatus of the site collection to Adding content prevented
C. Back up to a local folder and then move the backup to a network folder.
D. Use Central Administration to perform the backup.
E. Use Windows PowerShell to perform the backup.

Correct Answer: CE

Explanation/Reference:
C. For better performance, Microsoft recommends that you back up to the local computer and then move the backup files to a network folder. E (not D):
Scenario: Automation: Windows PowerShell must be used to automate all operations wherever possible.
Scenario: Backup and Recovery
* In the event of hardware failure, the SharePoint environment must be restored to the most recent date.
* The backup process must not degrade system performance.
* Automation: Windows PowerShell must be used to automate all operations wherever possible. Reference: Back up site collections in SharePoint 2013

Question 80
How should you complete the relevant code?

You need to add code at line CT11 to create the content types.
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:
- `docContentType1` is the Finance. The Order Details and Payment Confirmation types must refer to `docContentType1`.
- Scenario:
  * A Document content type named Finance must be created at the site level. It must contain two site columns
  * The Order Details and Payment Confirmation content types must be derived from the Finance content type.

**Question 81**
How should you complete the relevant code?

**HOTSPOT**
You need to create the required site columns.

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

**Hot Area:**
- `http://www.aoowe.com`
- `http://www.aoowe.com`
Correct Answer:

Explanation/Reference:
* GetFieldByInternalName
  The GetFieldByInternalName method of the SPFieldCollection class returns the field with the specified internal name from the collection.
* SPFieldText.Group
  Statement. A Document content type named Finance must be created at the site level. It must contain two site columns named Customer Name and Transaction Date.

**Question 82**
What should you do?
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

Explanation/Reference:
Scenario:
Workflows associated with document content types must be initiated when documents are generated.
When Payment Confirmation documents are generated, a workflow must send a notification to the customer by email.

Question 83
How should you complete the relevant code?

HOTSPOT
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.)

Hot Area:

Correct Answer:

Explanation/Reference:
* SPRoleDefinition
The role definition, or permission level, is the list of rights associated with the role. For example, a user with the Read role can browse pages in the Web site and view items in lists. A role definition is a collection of rights bound to a specific object. Role definitions (for example, Full Control, Read, Contribute, Design, or Limited Access) are scoped to the Web site.

* SPWeb.Update

Scenario: User Authorization
A custom role named Wholesale must be created. Wholesale customers must be assigned to this role in order to view the promotions page.
Incorrect:
Not RoleDefinitionCollection: SPWeb does not have a member RoleDefinitionCollection. Not web.Commit(): SPWeb does not have a method Commit().
Not web.AddProperty(CustomRole, permissions): Just need to create the role, not add permissions.
Reference: SPWeb members; SPWeb methods
Question 84
What should you do?
After deploying a solution, a code-based hotfix becomes available.
You need to deploy the hotfix.
What should you do? (Each correct answer presents part of the solution. Choose all that apply.)
A. Use assembly binding redirection in the web application configuration file.
B. Increment the assembly file version of the assembly.
C. Increment the product version of the assembly.
D. Increment the assembly version of the assembly.
E. Use assembly binding redirection in the assembly policy file.

Correct Answer: AC
Explanation/Reference:
A: Assembly versions are everywhere in SharePoint - web.config files, web part definitions, workflow definitions, event receiver bindings - the list goes on. In each case, the version number is absolutely required so that SharePoint can load the code to run at that time. If you update an assembly’s version, you have two choices to ensure your code can still be loaded:
- Find and update every reference to the previous assembly version.
- Use a binding redirect in the relevant .config file (e.g. web.config) to point to the new version of the assembly.
C: Assembly Version: This is the version number used by framework during build and at runtime to locate, link and load the assemblies. When you add reference to any assembly in your project, it is this version number which gets embedded. At runtime, CLR looks for assembly with this version number to load. But remember this version is used along with name, public key token and culture information only if the assemblies are strong-named signed. If assemblies are not strong-named signed, only file names are used for loading.

Incorrect:
not B: Assembly File Version: This is the version number given to file as in file system. It is displayed by Windows Explorer. It’s never used by .NET framework or runtime for referencing.
From scenario:
* solution artifacts must adhere to industry best practices.
* Code based hot fixes must be deployed directly to the Global Assembly Cache on all SharePoint servers.
* Only one version of an assembly must be available at runtime.

Question 85
Which code segment should you include in Target 1, Target 2 and Target 3 to complete the code?
DRAG DROP
You need to add code at line IL22 to implement the task list design.
You have the following code:

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

Correct Answer:
Question 86
What should you do?
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 87
What should you do?
You receive an error when you deploy the app.
You need to resolve the error.
What should you do?
A. Deploy the app to https://contoso.sharepoint.com/tasks.
C. Enable side-loading of apps in the Visual Studio project properties.
D. Enable side-loading of apps in the app manifest.
Correct Answer: D

Explanation/Reference:
* Scenario: Pending Issues
When you deploy the app from Visual Studio 2012, you receive the error: "Error occurred in deployment step 'Install app for SharePoint': Sideloading of apps is not enabled on this site."

Question 88
What should you do?
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: 
We should deploy the app to the Development site, that is https://contoso.sharepoint.com/tasks (see Existing Site Configuration in scenario). 

Note: 
* Loading Apps directly from Visual Studio only works if the destination is a Developer site. That form of distribution, called side loading, is only used when testing and debugging an App. To load an App in a regular site you need to add the App package produced in Visual to the App Catalog site that is associated with your Web Application. From there you will be able to load the app using the Site Contents link in your site. 
* Issue: While we try creating a SharePoint 2013 App in a SharePoint hosted model and when we try to deploy the solution, we get an “Error occurred in deployment step ‘Install app for SharePoint’: Side loading of apps is not enabled on this site.” 
Solution: 
1. That is, while creating a site collection/site where you want to deploy the app, create it using the “Developer Site” template under the Collaboration tab. 
2. Always the app should be published/deployed to the developer site (A site collection with the Developer Site Template). And from this developer site you can add the App to your SharePoint site 

Scenario: Pending Issues 
When you deploy the app from Visual Studio 2012, you receive the error: “Error occurred in deployment step ‘Install app for SharePoint’: Side loading of apps is not enabled on this site.” 
Reference: Side Loading of apps is not enabled on this site error while installing app in SharePoint 2013

Question 89 
What should you do? 
You need to configure navigation for the site. 
What should you do? (Each correct answer presents part of the solution. Choose all that apply.) 
A. Create simple links or headers for new pages. 
B. Create friendly URLs for new pages automatically. 
C. Add unique identifiers to new pages. 
D. Create term-driven pages with friendly URLs. 
E. Add new pages to navigation automatically. 

Correct Answer: ABD 
Explanation/Reference: 
D: Scenario: Navigational links across the top should be driven by the term store and use URLs that will improve search engine ranking. 
A: Simple links: 
The HR node is configured with a link to a page the user will be taken to when clicking on the menu item:

BD: Enable Managed Navigation 
This page allows you to select managed navigation for your global and current navigation. Under Site Settings / Look and Feel click on Navigation.
Other settings on this page allow you to define the term set that will be used for navigation terms and if new pages created should be added to the term set automatically. You can also specify if friendly URL’s should be created automatically.

Reference: Term based navigation in SharePoint 2013; SharePoint 2013 Friendly URLs and Managed Navigation

Question 90
Which code segment should you insert at line TN16?
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: A
Explanation/Reference:
*A well-designed navigation tells your site’s users a lot about the business, products, and services that the website offers. By updating the taxonomy behind the navigation, businesses can drive and keep up with change without having to recreate their site navigation in the process.*

The menu for the “global navigation” scheme typically appears at the top of the master page.
Scenario: Navigational links across the top should be driven by the term store and use URLs that will improve search engine ranking. Incorrect: Not C: StandardNavigationProviderNames.CurrentNavigationTaxonomyProvider field
The menu for the “current navigation” scheme typically appears on the left side of the master page.

Question 91
Which code segment should you insert at line CD04?
You need to validate that specific users can delete tasks.
Which code segment should you insert at line CD04?

A. GroupCollection groups = context.Web.SiteGroups;
   Group members = groups.GetByName("Users");
   context.Load(members.Groups);

B. GroupCollection groups = context.Web.SiteGroups;
   Group members = groups.GetByName("Users");
   context.Load(members.Users);

C. List groups = context.Web.SiteUserInfoList;
   Group members = groups.GetByName("Project Leads");
   context.Load(members.Users);

D. GroupCollection groups = context.Web.SiteGroups;
   Group members = groups.GetByName("Project Leads");
   context.Load(members.Users);
A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: D
Explanation/Reference:
Retrieving all users from a SharePoint group
The SiteGroups property of the Web class gets all groups in all Web sites within a site collection. Example:
Scenario: Project leads can remove task lists. Reference: How to: Work with Users and Groups

Question 92
Which code segment should you insert at line TN24?
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:
Managed Navigation allows for “friendly” URLs. These friendly URLs no longer contain the “Pages/” folder. Reference: SharePoint 2013 – Friendly URLs and Managed Navigation

Question 93
Which code segment should you use?
You need to complete the code at line LV19 to implement the validation of the app license.
Which code segment should you use?

A. if (result.EntitlementType.ToLower() == ”trial”) {
    return true;
}
B. if (result.EntitlementType.ToLower() == ”valid”) {
    return true;
}
C. if (result.EntitlementType.ToLower() == ”paid”) {
    return true;
}
D. if (result.EntitlementType.ToLower() == ”free”) {
    return true;
}

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

Correct Answer: C
Question 94
Which code segments should you include in Target 1 and Target 2 to complete the code?

HOTSPOT
You need to add markup at line AM10 to set the minimum app permissions for the FranchiseMonitor app.

Which code segments should you include in Target 1 and Target 2 to complete the code? (To answer, select the appropriate options from each drop-down list in the answer area.)

Hot Area:

Correct Answer:

Explanation/Reference:
URL: SharePoint/content/sitecollection/web
The website where the app is installed. Includes all children of this scope.

Scenario: The FranchiseMonitor app must be able to create lists within SharePoint to store records of the CSV files so that they may be sent to the CloudManager app.

Incorrect:
URL: http://sharepoint/content/tenant
The tenancy where the app is installed. Includes all children of this scope. URL: http://sharepoint/content/sitecollection/web/list
All the lists in the website where the app is installed. Includes all children of this scope.

Question 95
Which markup segments should you include in Target 1 and Target 2 to complete the markup?

HOTSPOT
You need to replace the markup at lines AM17 through line AM20 to set the minimum app permissions for the FranchiseMonitor app.

Which markup segments should you include in Target 1 and Target 2 to complete the markup? To answer, select the appropriate options from each drop-down list in the answer area.
**Question 96**
Which properties should you configure?
You need to configure the credential store for the app.
Which properties should you configure? (Each correct answer presents part of the solution. Choose all that apply.)
A. Pin
B. Windows Password
C. Windows User Name
D. Password
E. User Name

**Correct Answer:** DE

**Explanation/Reference:**
From scenario:
* A client asks you to create a basic task tracking app for SharePoint. The app will be hosted remotely
* Remote users will authenticate to the app by using a username and password.

**Question 97**
Which file should you select?
You need to deploy the package.
Which file should you select?
A. the file ending in .publish
B. the file ending in .wsp
C. the file ending in .dll
D. the file ending in .app

Correct Answer: D
Explanation/Reference:
To publish your app for SharePoint, upload the app manifest file (.app) of your app to the Office Store, the Apps for Office catalog, SharePoint, a file share, or the Exchange catalog.
Scenario: When completed, the app will be published to the Microsoft Store as a paid app.
Reference: How to: Publish an app for SharePoint by using Visual Studio

Question 98
How should you complete the relevant code?
DRAG DROP
You need add to 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:

Correct Answer:
**Scenario:** Tasks can be tagged with the programming language being used. Task list items may be tagged only with the following terms: C++, C#, and JavaScript.

**Question 99**
What should you do?
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: D

**Explanation/Reference:**
We should deploy the app to the Development site, that is https://contoso.sharepoint.com/tasks (see Existing Site Configuration in scenario).

* Loading Apps directly from Visual Studio only works if the destination is a Developer site. That form of distribution, called side loading, is only used when testing and debugging an App. To load an App in a regular site you need to add the .App package produced in Visual to the App Catalog site that is associated with your Web Application. From there you will be able to load the app using the Site Contents link in your site.

* Issue: While we try creating a SharePoint 2013 App in a SharePoint hosted model and when we try to deploy the solution, we get an "Error occurred in deployment step 'Install app for SharePoint': Side loading of apps is not enabled on this site."

Solution:
1. That is, while creating a site collection/site where you want to deploy the app, create it using the "Developer Site" template under the Collaboration tab.
2. Always the app should be published/deployed to the developer site (A site collection with the Developer Site Template). And from this developer site you can add the App to your SharePoint site

**Scenario: Pending Issues**
When you deploy the app from Visual Studio 2012, you receive the error: "Error occurred in deployment step 'Install app for SharePoint': Side loading of apps is not enabled on this site."

**Reference:** Side loading of apps is not enabled on this site error while installing app in SharePoint 2013

**Question 100**
What should you do?

**HOTSPOT**
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.)

Hot Area:
Correct Answer:

Explanation/Reference:

Box 1: App for SharePoint 2013 Scenario:
The FranchiseMonitor app must allow a Franchise employee to upload Appointments.csv to a SharePoint document library in each Franchise site collection, and send Appointments.csv to the CloudManager app.
The FranchiseMonitor app must be able to create lists within SharePoint to store records of the CSV files so that they may be sent to the CloudManager app.

Box 2: Immersive Full Page
Scenario: The FranchiseMonitor app must display the courier’s location on the bicycle courier’s microfeed on the SharePoint farm if the courier has remained stationary for more than three minutes.

* Immersive (or full-page app): This shape provides a fully immersive experience by using the entire page. While this gives you complete control over the app experience, it is important to make sure that your app properly links back to the SharePoint site, so the user experience feels integrated and not lost. To make this simple, we provide a chrome control that not only lets your app automatically point a user back to their SharePoint environment, but it also provides your app with the current SharePoint cascading style sheet (CSS). So when SharePoint changes its CSS, say, through a theming change, your app will change its look and feel as well.

Reference: Deciding between apps for SharePoint and SharePoint solutions

Question 101
What should you do?

HOTSPOT
You need to design the CloudManager 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:
Box 1: App for SharePoint 2013

Box 2: Immersive Full Page

* Immersive (or full-page app): This shape provides a fully immersive experience by using the entire page. While this gives you complete control over the app experience, it is important to make sure that your app properly links back to the SharePoint site, so the user experience feels integrated and not lost. To make this simple, we provide a chrome control that not only lets your app automatically point a user back to their SharePoint environment, but it also provides your app with the current SharePoint cascading style sheet (CSS). So when SharePoint changes its CSS, say, through a theming change, your app will change its look and feel as well.

Reference: Deciding between apps for SharePoint and SharePoint solutions

Question 102
Which ItemTypes should you test?

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:

Question 103
Which technologies should you use?

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.

Question 104
Which configuration option should you select?

HOTSPOT

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.)

Hot Area:
Correct Answer:

Explanation/Reference:
Scenario: The CourierMobile app receives Microsoft Outlook appointments and Outlook appointment cancellations from the CloudManager app. The appointments include the address of the location for pick-up or drop-off.

Question 105
What should you do?
You need to create a custom sign-in page to allow the users of the FranchiseMonitor app to authenticate against SharePoint and Margie’s Travel API. What should you do?
A. Create an app for SharePoint. Set the trust level to Sandbox solution. Create an application page that writes a cookie named FedAuth. Deploy the app and configure the Sign In Page URL in Central Administration Authentication Provider for the zone.
B. Create an app for SharePoint. Set the trust level to Farm solution. Create an application page that writes a cookie named FedAuth. Deploy the app and configure the Sign In Page URL in Central Administration Authentication Provider for the zone.
C. Create an app for SharePoint. Set the trust level to Farm solution. Create an application page that writes a cookie named ASPXAUTH. Deploy the
app and configure the Sign In Page URL in Central Administration Authentication Provider for the zone.

D. Create an app for SharePoint. Set the trust level to Sandbox solution. Create an application page that writes a cookie named ASPXAUTH. Deploy the app and configure the Sign In Page URL in Central Administration Authentication Provider for the zone.

Correct Answer: B

Explanation/Reference:

Scenario: The FranchiseMonitor app must use claims-based authentication, once launched, to authenticate the franchisee against an API provided by Margie’s Travel.

Question 106
Which code segments should you implement?
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.)

A. public abstract bool SupportsEntityInformation;
protected abstract void FillClaimsForEntity(Uri context, SPClaim entity, List<SPClaim> claims);

B. protected abstract void FillSchema(SPProviderSchema schema);
protected abstract void FillClaimTypes(List<String> claimTypes);
protected abstract void FillClaimValueTypes(List<String> claimValueTypes);
protected abstract void FillEntityTypes(List<String> entityTypes);

C. public abstract bool SupportsHierarchy;
protected abstract void FillHierarchy(Uri context, String[] entityTypes,
String hierarchyNodeID, int numberOfLevels, bool includeEntityData, SPProviderHierarchyTree hierarchy);

D. public abstract bool SupportsResolve;
protected abstract void FillResolve(Uri context, String[] entityTypes,
String resolveInput, List<PickerEntity> resolved);
protected abstract void FillResolve(Uri context, String[] entityTypes,
SPClaim resolveInput, PickerEntity> resolved);

E. public abstract String Name;

F. public abstract bool SupportsSearch;
protected abstract void FillSearch(Uri context, String[] entityTypes,
String searchPattern, SPProviderHierarchyTree searchTree);

A. Option A
B. Option B
C. Option C
D. Option D
E. Option E
F. Option F

Correct Answer: BDF

Explanation/Reference:
The following are required methods when writing a claims provider.

B: Required for claims picker
Claims can be displayed in the people picker control through claims picking. The following methods in the SPClaimProvider class are required methods if you want to implement claim picking in the people picker control.

protected abstract void FillSchema(SPProviderSchema schema);
protected abstract void FillClaimTypes(List<String> claimTypes);
protected abstract void FillClaimValueTypes(List<String> claimValueTypes);
protected abstract void FillEntityTypes(List<String> entityTypes);

D: Required for resolving claims in the type-in control of the claims picker

If you want to be able to resolve claims by using the type-in control of the claims picker, you must implement the following methods in the SPClaimProvider class.

public abstract bool SupportsResolve
protected abstract void FillResolve(Uri context, String[] entityTypes, String resolveInput, List<PickerEntity> resolved);
protected abstract void FillResolve(Uri context, String[]

F: Required for searching for claims in the claims picker

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If you want to be able to search for claims in the claims picker, you must implement the following property and method in the SPClaimProvider class.

```csharp
public abstract bool SupportsSearch
protected abstract void FillSearch(Uri context, String[] entity)
```

From scenario:
```
MyClaimsProvider.cs
```

```csharp
CF01 [SharePointPermissionAttribute(SecurityAction.LinkDemand, ObjectModel = true)]
CF02 [SharePointPermissionAttribute(SecurityAction.InheritanceDemand, ObjectModel = true)]
CF03
CF04 public abstract class MyClaimsProvider : Microsoft.SharePoint.Administration.Claims.SPCla
imProvider
CF05 {
  public abstract String Name;
CF06
CF07
CF08 protected abstract void FillSchema(...);
CF09 protected abstract void FillClaimTypes(...);
CF10 protected abstract void FillClaimValueTypes(...);
CF11 protected abstract void FillEntityTypes(...);
CF12
CF13 public abstract bool SupportsResolve;
CF14 protected abstract void FillResolve(...);
CF15 protected abstract void FillResolve(...);
CF16
CF17 public abstract bool SupportsSearch;
CF18 protected abstract void FillSearch(...);
CF19
CF20 }
```

Reference: How to: Create a claims provider in SharePoint 2013

**Question 107**

What should you do?

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. Create a custom role definition at the franchisee subsite level. Add franchise employees to the custom role.

B. Create a custom role definition in the 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.

Correct Answer: B

Explanation/Reference:

**Question 108**

What should you do?

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:

**Question 109**

Which four actions should you perform in sequence?

DRAG DROP
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:
Box 1 (see box 4): Empty elements are most often used to define SharePoint project items that lack a project or project item template in Visual Studio. When you add an empty element to your project, a node named EmptyElement[x] (where [x] is a unique number) is created. EmptyElement[x] contains a single file that is named Elements.xml. Use XML statements to define the desired elements in Elements.xml.

Box 2: SuiteLinksDelegate delegate control allows us to add links in right suite bar like “Newsfeed”, “Sites” etc.

Box 3: User Control Code Behind:
protected override void Render(HtmlTextWriter writer) etc.

Box 4: For all these delegate controls, you need to add a reference in Elements.xml file to specify the control id and control source properties:
<?xml version="1.0" encoding="utf-8"?>
<Elements xmlns="http://schemas.microsoft.com/sharepoint/"
<Control ControlSrc="//_controltemplates/15/MyDelegateControls/UserControl.ascx" Id="DelegateControlID" //ID of DelegateControl e.g. "SuiteLinksDelegate" Sequence="1" />
</Elements>
Reference: New Delegate Controls in SharePoint 2013

Question 110
What should the site collection administrator do to get to the appropriate page?
A franchisee deletes several sites from the franchise’s site collection. The franchisee site collection administrator must recover the sites.
You need to instruct the franchisee site collection administrator on how to access the page to recover the sites.
What should the site collection administrator do to get to the appropriate page?
A. Select General Settings for the Web Application in Central Administration and change the second stage Recycle Bin settings to 100 percent.
B. Select General Settings for the Web Application in Central Administration and change the first stage Recycle Bin settings to 0 days.
C. Select the Recycle Bin on the Site Settings page. Choose the appropriate sites and select Restore Selection.
D. Select the Recycle Bin in the Quick Launch page. Choose the appropriate sites and select Restore Selection.
Correct Answer: D
Explanation/Reference:
To restore a deleted site or workspace directly from the Site Collection Recycle Bin:
1. Click Recycle Bin on the Quick Launch.
2. On the Site Name Recycle Bin page, above the list of deleted objects, click the Site Collection Recycle Bin link.
3. On the Site Collection Administration Recycle Bin page, under Select a View, make sure that Deleted from end user Recycle Bin is selected.
4. Locate the site or workspace that you want to restore.
5. Select the check box next to the site or workspace that you want to restore, and then click Restore Selection.

Incorrect:
Not A, not B: The sites have been deleted. They need to be restored. A and B are wrong because modifying the Recycle Bin settings after the sites are deleted will have no effect on the deleted sites.
Reference: Restore a deleted object from a SharePoint Recycle Bin

Question 111
What should you do?
You need to ensure that the CourierMobile app determines whether the franchisee owns the account.

A. Use OAuth and App only security. Request the Read right from the http://sharepoint/content/sitecollection/web/list scope URI.
B. Use OAuth and App+User security. Request the Read right from the http://sharepoint/content/sitecollection scope URI.
C. Use SPSecurity.RunWithElevatedPrivileges to connect to SharePoint and read from the Accounts list in the site collection.
D. Use the SharePoint user credentials of the bicycle messenger to connect to SharePoint and read from the Accounts list in the site collection.

Correct Answer: B
Explanation/Reference:
* SharePoint users three types of authorization policies. The user-only policy requires only that the call to SharePoint include an authenticated user identity. The app-only policy requires only that the call include only an authenticated app identity. The user+app policy requires that the call include both kinds of authenticated identities.
* You may have already heard that OAuth 2.0 plays an important role in the authentication and authorization of apps for SharePoint. It does, but it is not necessarily a part of the authorization story for every app for SharePoint. If you plan to build an app for SharePoint that runs in an remote web application and communicates back to SharePoint using server-side code, you will need to use OAuth.

Scenario:
* The CourierMobile app must be able to connect to the SharePoint Customers list and verify whether the account belongs to the franchisee to avoid pickups or deliveries to customers that do not belong to the franchisee. When the CourierMobile add accesses the Customers list, it must only read its contents with the minimum permissions necessary.
* Margie’s Travel provides an API to enable external developers to authenticate by using OAuth and claims-based authentication. Many couriers are members of Margie’s Travel
Reference: Authorization and authentication of apps for SharePoint 2013

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