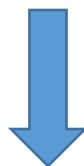


## Microsoft MCSD Certification 70-489 Exam



- Vendor: Microsoft
- Exam Code: 70-489
- Exam Name: Developing Microsoft SharePoint Server 2013 Advanced Solutions

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**QUESTION 1**

Drag and Drop Question

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

```
$ns | add-types "Microsoft.Office.Server.UserProfiles"  
$site = Get-SPSite "https://internal.contoso.com"  
$ctx = Get-SPServiceContext($site)
```

How should you complete the relevant Windows PowerShell cmdlets? (To answer, drag the appropriate code segment to the correct location or locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

	Answer Area
GetProfileSubType	\$mgr1 = new \$ns. [ ] (\$ctx)
GetProfileTypeProperties	\$mgr2 = \$mgr1. [ ]
GetPropertyByName	\$mgr3 = \$mgr2.GetCoreProperties()
ProfilePropertyManager	\$mgr4 = \$mgr2. [ ]
UserProfileConfigManager	( \$ns.ProfileType::User )
	\$mgr5 = \$ns.ProfileSubTypeManager::Get(\$ctx)
	\$profileName = \$ns.ProfileSubtypeManager::GetDefaultProfileName \$ns.ProfileType::User
	\$type1 = \$mgr5. [ ] (\$profileName)
	\$mgr6 = \$type1.Properties
	\$prop1 = \$mgr6. [ ] ("Custom1")

**Answer:**

Answer Area	
GetProfileSubType	\$mgr1 = new \$ns. <input type="text" value="UserProfileConfigManager"/> (\$ctx)
GetProfileTypeProperties	\$mgr2 = \$mgr1. <input type="text" value="ProfilePropertyManager"/>
GetPropertyByName	\$mgr3 = \$mgr2.GetCoreProperties()
ProfilePropertyManager	\$mgr4 = \$mgr2. <input type="text" value="GetProfileTypeProperties"/>
UserProfileConfigManager	( \$ns.ProfileType::User )
	\$mgr5 = \$ns.ProfileSubTypeManager::Get(\$ctx)
	\$profileName = \$ns.ProfileSubtypeManager::GetDefaultProfileName \$ns.ProfileType::User
	\$type1 = \$mgr5. <input type="text" value="GetProfileSubType"/> (\$profileName)
	\$mgr6 = \$type1.Properties
	\$prop1 = \$mgr6. <input type="text" value="GetPropertyByName"/> ("Custom1")

## QUESTION 2

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

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

**Answer: BCD**

**Explanation:**

Use property filters to query the content of managed properties that are set to queryable in the search schema. Select managed properties from the Property filter lists. Click Add property filter to add the filter to the query.

<http://office.microsoft.com/en-001/support/sharepoint-help/sharepointsearch/about-configuring-the-refinement-web-part-HA102848699.aspx>

<http://office.microsoft.com/sq-al/office365-sharepoint-online-enterprise-help/change-settings-for-the-search-results-web-part-HA103998057.aspx>

<http://msdn.microsoft.com/en-us/library/dd451196.aspx>

## QUESTION 3


Hotspot Question

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


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


    getProfilePic();
}

var a;
var b;
function getProfilePic() {

    a = new SP.UserProfiles.;
    SocialFollowingManager(context)
    UserProfile()
    PeopleManager(context)

    b = a.getMyProperties();
    context.load(b);
    context.executeQueryAsync(function () {
        if (b) {

            var c = ;
            a.get_pictureUrl()
            b.get_pictureUrl()
            b.get_personalUrl()
            b.get_userUrl()

            $("#profilePic").attr();
            "src", c
            "src", b
            "src", pictureUrl
            "profilePic", c


        }
    }, onFail);
}
```

**Answer:**


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


    getProfilePic();
}

var a;
var b;
function getProfilePic() {

    a = new SP.UserProfiles.;
    SocialFollowingManager(context)
    UserProfile()
    PeopleManager(context)

    b = a.getMyProperties();
    context.load(b);
    context.executeQueryAsync(function () {
        if (b) {

            var c = ;
            a.get_pictureUrl()
            b.get_pictureUrl()
            b.get_personalUrl()
            b.get_userUrl()

            $("#profilePic").attr();
            "src", c
            "src", b
            "src", pictureUrl
            "profilePic", c

        }
    }, onFail);
}
```

**QUESTION 4**

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

```
01 var context;  
02 var b;  
03 var user;  
04 $(document).ready(function () {  
05     var e = ExecuteOrDelayUntilScriptLoaded(sharePointReady, "sp.userprofiles.js");  
06 });  
07 function sharePointReady() {  
08     context = new SP.ClientContext.get_current();  
09     getProperties();  
10 }  
11 function getProperties() {  
12  
13     b = a.getMyProperties();  
14     context.load(b);  
15     context.executeQueryAsync(onGetPropertiesSuccess, onGetPropertiesFail);  
16 }
```

The app must display user profile data for the user that is logged in. The user profile data must include the PreferredName, Department, and WorkPhone properties. You need to ensure that the app displays the required user profile data. Which code segment should you insert at line 12?

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

**Answer: D**

**QUESTION 5**

Drag and Drop Question

You develop a SharePoint app that includes microblog posts and conversations for a company named Contoso, Ltd. You must use various programming object models to determine the number of unread mentions in microblog posts for the current user. You need to call methods for different programming object models. How should you create the method calls? (To answer, drag the appropriate code segments to the correct location or locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

```
GetMentions()
getMentions()
GetUnreadMentionCount()
getUnreadMentionCount()
GET https://www.contoso.com/_api/social.feed/my/MentionFeed
GET https://www.contoso.com/_api/social.feed/my/UnreadMentionCount
```

Answer Area

CSOM:

JSOM:

REST:

SSOM:

**Answer:**

```
GetMentions()
getMentions()
GetUnreadMentionCount()
getUnreadMentionCount()
GET https://www.contoso.com/_api/social.feed/my/MentionFeed
GET https://www.contoso.com/_api/social.feed/my/UnreadMentionCount
```

Answer Area

CSOM:

JSOM:

REST:

SSOM:

**QUESTION 6**

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



Culture	Default value	Synonyms
English	memory	storage
French	mémoire	stockage
Italian	memoria	conservazione
Spanish	memoria	almacenamiento
German	speicher	lagerung

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

```
var d = c.GetAllTerms();
ctx.Load(d, s => s.Include(t => t.Name));
ctx.ExecuteQuery();

var e = d.SingleOrDefault(x => x.Name == );

e.CreateLabel(,
    "memoria"
    "mémoire"
    "speicher"

    , true);

System.Globalization.CultureInfo.CreateSpecificCulture("it-IT").LCID
System.Globalization.CultureInfo.CreateSpecificCulture("de-DE")
System.Globalization.CultureInfo.CreateSpecificCulture("de-DE").LCID
System.Globalization.CultureInfo.CurrentCulture.LCID

e.CreateLabel("lagerung",
    System.Globalization.CultureInfo.CreateSpecificCulture("de-DE").LCID, );

ctx.ExecuteQuery();
```

**Answer:**

```
var d = c.GetAllTerms();
ctx.Load(d, s => s.Include(t => t.Name));
ctx.ExecuteQuery();

var e = d.SingleOrDefault(x => x.Name == );

e.CreateLabel(,
    "memoria"
    "mémoire"
    "speicher"

    , true);

System.Globalization.CultureInfo.CreateSpecificCulture("it-IT").LCID
System.Globalization.CultureInfo.CreateSpecificCulture("de-DE")
System.Globalization.CultureInfo.CreateSpecificCulture("de-DE").LCID
System.Globalization.CultureInfo.CurrentCulture.LCID


e.CreateLabel("lagerung",
    System.Globalization.CultureInfo.CreateSpecificCulture("de-DE").LCID, );

ctx.ExecuteQuery();
```

**QUESTION 7**

Hotspot Question

A company uses SharePoint to manage a large number of documents. The Document ID Service feature is enabled. You need to create a custom class that generates a unique ID for each document. How should you complete the class definition? (To answer, select the appropriate code segment from each drop-down list in the answer area.).

using  ;


Microsoft.SharePoint

Microsoft.Office.Server

Microsoft.SharePoint.Taxonomy

Microsoft.Office.DocumentManagement

Microsoft.Office.DocumentManagement.Server

public class Custom : 

SPItem.Id

DocumentId

SPFile.UniqueId

DefaultDocument

DocumentIdProvider

{  
    ...  
}

**Answer:**

using  ;

Microsoft.SharePoint

Microsoft.Office.Server

Microsoft.SharePoint.Taxonomy

Microsoft.Office.DocumentManagement

Microsoft.Office.DocumentManagement.Server

public class Custom : 

SPItem.Id

DocumentId

SPFile.UniqueId

DefaultDocument

DocumentIdProvider

{  
    ...  
}

**QUESTION 8**

Hotspot Question

You implement eDiscovery in SharePoint to access Exchange Online mailbox data. You need to ensure that users continue to have access to Exchange Online mailbox data after an In-Place Hold is applied. On the Exchange admin center page, which option should you select? (To answer, select the appropriate option in the answer area.)



## Exchange admin center

recipients
permissions
compliance management
organization
protection
mail flow
mobile
public folders
unified messaging

**Answer:**

## Exchange admin center

recipients
permissions
compliance management
organization
protection
mail flow
mobile
public folders
unified messaging

**QUESTION 9**

You use Visual Studio to design a SharePoint solution for a company that provides computer support services to customers around the world. The solution must list the customer service representatives that resolve the highest number of support requests. The solution also must allow filtering of customer service representatives by region. You need to configure the solution to meet the requirements. Which steps should you take? (Each correct answer presents part of the solution. Choose all that apply.)

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

**Answer: CD**

**QUESTION 10**

Drag and Drop Question

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

	Answer Area
<code>searchExecutor.Retrieve()</code>	
<code>using Microsoft.SharePoint.Client.Search.Applications;</code>	
<code>searchExecutor.ExecuteQuery(query)</code>	
<code>SearchExecutor searchExecutor = new SearchExecutor(clientContext); KeywordQuery query = new KeywordQuery (clientContext);</code>	
<code>using Microsoft.SharePoint.Client.Search.Query;</code>	
<code>var clientContext = TokenHelper.GetClientContextWithContextToken (hostWeb, contextToken, Request.Url.Authority)</code>	
<code>Query query = new Query(clientContext);</code>	

**Answer:**

	Answer Area
<code>searchExecutor.Retrieve()</code>	<code>using Microsoft.SharePoint.Client.Search.Query;</code>
<code>using Microsoft.SharePoint.Client.Search.Applications;</code>	
<code>searchExecutor.ExecuteQuery(query)</code>	<code>var clientContext = TokenHelper.GetClientContextWithContextToken (hostWeb, contextToken, Request.Url.Authority)</code>
<code>SearchExecutor searchExecutor = new SearchExecutor(clientContext); KeywordQuery query = new KeywordQuery (clientContext);</code>	
<code>using Microsoft.SharePoint.Client.Search.Query;</code>	<code>SearchExecutor searchExecutor = new SearchExecutor(clientContext); KeywordQuery query = new KeywordQuery (clientContext);</code>
<code>var clientContext = TokenHelper.GetClientContextWithContextToken (hostWeb, contextToken, Request.Url.Authority)</code>	
<code>Query query = new Query(clientContext);</code>	<code>searchExecutor.ExecuteQuery(query)</code>

#### QUESTION 11

You develop a SharePoint app for a toy company that uses the Representational State Transfer (REST) API for search. The site collections in the app have been crawled recently and use the default search schema. The app includes the following code segment: (Line numbers are included for reference only.)

```
01 function runQuery() {
02     var queryTerms = $("#searchBox").text();
03
04     spPageContextInfo.webAbsoluteUrl + "/_api/search/query?querytext='" + queryTerms +
05     "'&sourceid='" + resultSourceId + "'";
06 }
```

You create the following result sources.

Result source name	ID	Scope level	QueryTransform
Web PDF	{82951A0C-6385-4E29-8D7F-4AD92FE9F536}	Web	{?{searchTerms}} fileextension:PDF
Farm PDF	{32FBAF57-367E-411D-B93F-F28E1EFF58B2}	Farm	{?{searchTerms}} filetype:pdf
Site PDF	{0F41A999-52BA-41ED-AAAD-9D414A0FCBB4}	Site Collection	{?{searchTerms}} "PDF"
Web Brands	{319BCF11-ACBE-4B77-A0E4-7225E31810EB}	Web	{?{searchTerms}} near ("deluxe brands")
Site PDF Extension	{A0EBE2E7-C7CA-4516-8208-F558827C75D6}	Site Collection	{?{searchTerms}} fileextension:PDF
Site PDF FileType	{4C50FE18-B254-47A1-ABAD-0B6C4577D914}	Site Collection	{?{searchTerms}} filetype:pdf

You need to ensure that the app only displays PDF documents. Which code segment should you insert at line 03?

- A. `var resultSourceId = "Site PDF";`
- B. `var resultSourceId = "4C50FE18-B254-47A1-ABAD-0B6C4577D914";`
- C. `var resultSourceId = "0F41A999-523A-41ED-AAAD-9D414A0FC3B4";`
- D. `var resultSourceId = "82951A0C-6385-4E29-8D7F-4AB92FE9F536";`

**Answer: D**

### QUESTION 12

Hotspot Question

A SharePoint app displays the following search results:

Model	Color	Manufacture
A	Red	Year 2010
A	Black	Year 2010
A	Red	Year 2011
B	Blue	Year 2010
B	Red	Year 2012
C	White	Year 2011

You have the following requirements:

- Group results by model.
- Display only two rows per model.
- Show a unique color for each model.

You need to define a query to meet the requirements. How should you complete the relevant code? (To answer, select the appropriate code segment from each drop-down list in the answer area.)

```
var query = new KeywordQuery(context)
{
    QueryText = "Manufacture:Year",
    [ ] = "Model: [ ] [ ] Color: [ ]",
    QueryInfo
    ReorderingRules
    CollapseSpecification
}
```

**Answer:**

```
var query = new KeywordQuery(context)
{
    QueryText = "Manufacture:Year",
    [ ] = "Model: [ ] [ ] Color: [ ]",
    QueryInfo
    ReorderingRules
    CollapseSpecification
}
```

### QUESTION 13

A legal company uses SharePoint for document and records management. You search all documents by using extractors and managed properties. FAST Query Language (FQL) is enabled for the result sources, and the content of the document is indexed as full text. All documents are named by using the following pattern: "AAA-Axxxx-AA". You must find documents that were created

in May 2012 and contain the ordered keywords "liable", "advocate", and "adjudication". Results that are returned must include only document names that begin with "HCT-Q" and end only with "AB". You need to create the FQL query that returns the required results. Which FQL statements should you use? (Each correct answer presents part of the solution. Choose all that apply.)

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

**Answer: BDF**

**Explanation:**

B (not E):

The ordered variant of NEAR, and requires an ordered match of the terms. The ONEAR operator can be used to restrict the result set to items that have N terms within a certain distance of Returns only items that don't match the operand. The operand may be any valid FQL expression.one another.

D (not C):

\* All documents are named by using the following pattern: "AAA-Axxxx-AA".

\* Results that are returned must include only document names that begin with "HCT-Q" and end only with "AB".

F (not A):

\* Range. Enables range matching expressions. The RANGE operator is used for numeric and date/time managed properties.

\* FQL provides the datetime data type for date and time. The following ISO 8601-compatible datetime formats are supported in queries:

- YYYY-MM-DD
- YYYY-MM-DDThh:mm:ss
- YYYY-MM-DDThh:mm:ssZ
- YYYY-MM-DDThh:mm:ssfrZ

**Reference: FAST Query Language (FQL) syntax reference**

#### QUESTION 14

You have a SharePoint farm. You create a web service that connects to an extension point in the Search service. The web service processes string content and returns the string in all capitalized letters. The web service includes the properties in the following table.

Managed properties	Crawled properties
Title	ows_q_TEXT_Title
TitleInCaps	ows_q_TEXT_TitleInCaps

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

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

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



- ☐ A. `$config.InputProperties = "ows_q_TEXT_Title"`  
`$config.OutputProperties = "ows_q_TEXT_TitleInCaps"`
- ☐ B. `$config.OutputProperties = "Title"`  
`$config.InputProperties = "TitleInCaps"`
- ☐ C. `$config.InputProperties = "Title"`  
`$config.OutputProperties = "TitleInCaps"`
- ☐ D. `$config.ManagedProperties = "Title", "TitleInCaps"`

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

**Answer: C**

**Explanation:**

InputProperties gets or sets the list of properties that the external service expects. OutputProperties gets or sets the list of properties that the external service outputs. These will overwrite the original value of that property as it is propagated through the Content Processing Component.

<http://msdn.microsoft.com/en-us/library/jj163982.aspx>

<http://msdn.microsoft.com/en-us/library/microsoft.office.server.search.administration.contentprocessing.contentenrichmentconfiguration.aspx>

<http://technet.microsoft.com/en-us/library/jj219502.aspx>

<http://msdn.microsoft.com/en-us/library/jj163968.aspx>

<http://technet.microsoft.com/en-us/library/jj219659.aspx>

### QUESTION 15

Hotspot Question

You use the SharePoint 2013 Management Shell to access a SharePoint farm. A user reports an error in one of the apps that you have installed. The error message contains the correlation token ID of b49f64b3-4722-4336-9a5c-56c326b344d4. You need to save a report of the complete error trace for all errors that were reported in the previous 30 minutes. How should you complete the Windows PowerShell cmdlet? (To answer, select the appropriate option from each drop-down list in the answer area.)



get-splogevent

-starttime  |

(get-date).addminutes(30)  
 (get-date).minutes.add(-30)  
 (get-date).addminutes(-30)  
 (current-date).addminutes(

where-object {

\$\_.tokenid  
 \$.correlation  
 \$\_.correlation  
 \$.correlationid

==  
 -eq  
 -equals  
 -contains

"b49f64b3-4722-4336-9a5c-56c326b344d4" } |  
> c:\errors.txt

**Answer:**

get-splogevent

-starttime  |

(get-date).addminutes(30)  
 (get-date).minutes.add(-30)  
 (get-date).addminutes(-30)  
 (current-date).addminutes(

where-object {

\$\_.tokenid  
 \$.correlation  
 \$.correlation  
 \$.correlationid

==  
 -eq  
 -equals  
 -contains

"b49f64b3-4722-4336-9a5c-56c326b344d4" } |  
> c:\errors.txt

#### QUESTION 16

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

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

Employee identification (ID) numbers that are less than 100 must be ignored. You need to configure the subscription. What should you do?

☐ A. Insert the following markup at line 12 :

```
<FilterValues>
  <FilterValue FilterDescriptorName="MinEmployeeId"
    FilterIndex="0" Type="100"/>
</FilterValues>
```

☐ B. Insert the following markup at line 06 :

```
<Identities>
  <Identity>where "minValue" >100</Identity>
</Identities>
```

☐ C. Insert the following markup at line 12 :

```
<FilterValues>
  <FilterValue FilterDescriptorName="MinEmployeeId"
    FilterIndex="0" Type="System.Int32">100</FilterValue>
</FilterValues>
```

☐ D. Insert the following markup at line 12 :

```
<FilterValues>
  <FilterValue FilterDescriptorName="MinEmployeeId"
    FilterIndex="100" Type="System.Int32"/>
</FilterValues>
```

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

**Answer: C**

**Explanation:**

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<http://msdn.microsoft.com/en-us/library/office/ee557321.aspx>

### QUESTION 17

Drag and Drop Question

You deploy a solution to a SharePoint server. You need to implement a method to programmatically access the health score of the SharePoint Server. Which three code segments should you use in sequence? (To answer, move the appropriate segments from the list of segments to the answer area and arrange them in the correct order.)

	Answer Area
<pre>SharePointHealthScore = Int32.Parse (response.Headers["X-SharePointHealthScore"])</pre>	
<pre>request.Method = "GET"; request.BeginGetResponse((asyncResult) =&gt; {     HttpWebResponse response =         request.EndGetResponse(asyncResult) as         HttpWebResponse;</pre>	
<pre>HttpWebRequest request =     WebRequest.Create( new Uri         ("uri", UriKind.Absolute) as HttpWebRequest;</pre>	
<pre>SharePointHealthScore = Int32.Parse (response.Headers["SPHealthScore"])</pre>	

**Answer:**

	Answer Area
<pre>SharePointHealthScore = Int32.Parse (response.Headers["X-SharePointHealthScore"])</pre>	<pre>SharePointHealthScore = Int32.Parse (response.Headers["X-SharePointHealthScore"])</pre>
<pre>request.Method = "GET"; request.BeginGetResponse((asyncResult) =&gt; {     HttpWebResponse response =         request.EndGetResponse(asyncResult) as         HttpWebResponse;</pre>	<pre>HttpWebRequest request =     WebRequest.Create( new Uri         ("uri", UriKind.Absolute) as HttpWebRequest;</pre>
<pre>HttpWebRequest request =     WebRequest.Create( new Uri         ("uri", UriKind.Absolute) as HttpWebRequest;</pre>	<pre>request.Method = "GET"; request.BeginGetResponse((asyncResult) =&gt; {     HttpWebResponse response =         request.EndGetResponse(asyncResult) as         HttpWebResponse;</pre>
<pre>SharePointHealthScore = Int32.Parse (response.Headers["SPHealthScore"])</pre>	

### QUESTION 18

Drag and Drop Question

You develop a SharePoint site by using the Team Site template. Users share large images by using the team site. You need to configure the SharePoint site so that images render at a maximum size of 400px wide and 200px high. Which three actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer.)

	Answer Area
Create an image rendition that is 400px wide and 200px high.	
Enable the binary large object (BLOB) cache in the web.config file for the site. Enable publishing features for the site collection.	
Disable the binary large object (BLOB) cache in the web.config file of the site. Enable publishing features for the site collection.	
Create a placeholder container that is 400px wide and 200px high in the master template.	
Choose the configured rendition each time a new image needs to be rendered.	

**Answer:**

	Answer Area
Create an image rendition that is 400px wide and 200px high.	Enable the binary large object (BLOB) cache in the web.config file for the site. Enable publishing features for the site collection.
Enable the binary large object (BLOB) cache in the web.config file for the site. Enable publishing features for the site collection.	Create an image rendition that is 400px wide and 200px high.
Disable the binary large object (BLOB) cache in the web.config file of the site. Enable publishing features for the site collection.	Choose the configured rendition each time a new image needs to be rendered.
Create a placeholder container that is 400px wide and 200px high in the master template.	
Choose the configured rendition each time a new image needs to be rendered.	

**QUESTION 19**

You configure a SharePoint app to collect diagnostic information. The app must meet the following requirements:

- Record messages about all unrecoverable events that limit the functionality of the app, but do not stop the app.
- Record all events that include unexpected exceptions.
- Minimize the effects of logging on app performance.

You need to configure the application to meet the requirements. Which trace log level should you use?

- A. High
- B. Medium
- C. Unexpected
- D. Monitorable

E. Verbose

**Answer: D**

**QUESTION 20**

Drag and Drop Question

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

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

**Answer:**

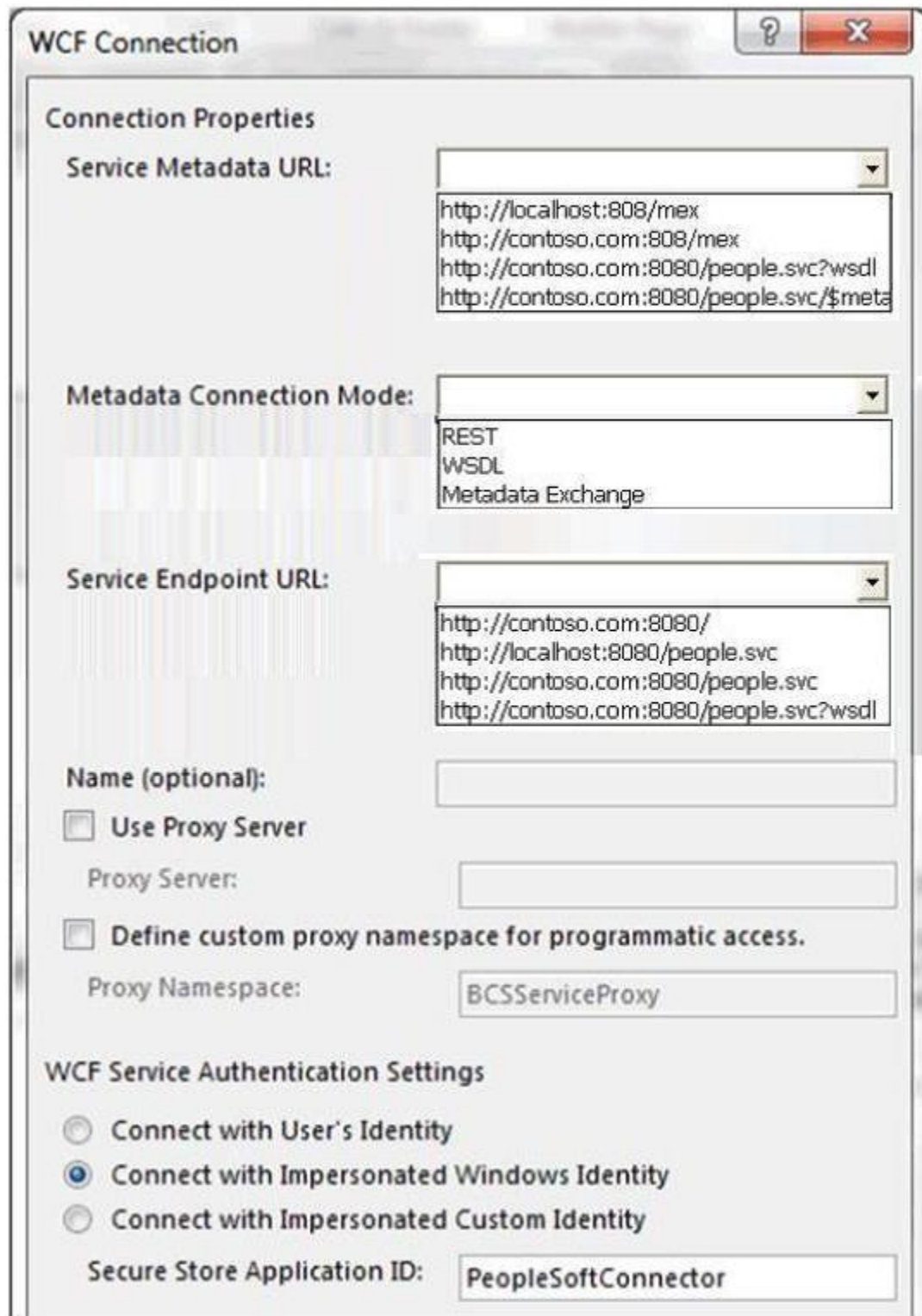


Answer Area	
Use the BDC model to query the client runtime for connection details.	From the Office app, generate a request for data and pass it to the BDC client runtime.
Use the BDC model to pass the request for the required data to the WCF connector.	Use the BDC Client Runtime to query the BDC model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

**QUESTION 21**

Contoso, Ltd. is integrating an Enterprise Resource Planning (ERP) system with SharePoint by using Business Connectivity Services (BCS). The ERP system is a Windows Communication Foundation (WCF) service that is hosted in Internet Information Services (IIS). The WCF service is named people.svc and is located at http://contoso.com:8080. The metadata for the service is found at http://contoso.com:808/mex. You need to create a data connection for the ERP system. In the WCF Connection dialog box, how should you configure the connection to the WCF service? (To answer, select the appropriate option from each drop-down list in the answer area.)





The image shows a 'WCF Connection' configuration window. It contains several sections: 'Connection Properties' with dropdowns for 'Service Metadata URL' and 'Service Endpoint URL'; 'Metadata Connection Mode' with a dropdown; 'Name (optional)' with a text box; 'Use Proxy Server' with a checkbox and a 'Proxy Server' text box; 'Define custom proxy namespace for programmatic access.' with a checkbox and a 'Proxy Namespace' text box containing 'BCSServiceProxy'; and 'WCF Service Authentication Settings' with three radio buttons and a 'Secure Store Application ID' text box containing 'PeopleSoftConnector'.

**WCF Connection**

**Connection Properties**

Service Metadata URL:   
http://localhost:808/mex  
http://contoso.com:808/mex  
http://contoso.com:8080/people.svc?wsdl  
http://contoso.com:8080/people.svc/\$meta

Metadata Connection Mode:   
REST  
WSDL  
Metadata Exchange

Service Endpoint URL:   
http://contoso.com:8080/  
http://localhost:8080/people.svc  
http://contoso.com:8080/people.svc  
http://contoso.com:8080/people.svc?wsdl

Name (optional):

☐ Use Proxy Server

Proxy Server:

☐ Define custom proxy namespace for programmatic access.

Proxy Namespace: BCSServiceProxy

**WCF Service Authentication Settings**

☐ Connect with User's Identity

☒ Connect with Impersonated Windows Identity

☐ Connect with Impersonated Custom Identity

Secure Store Application ID: PeopleSoftConnector

**Answer:**

**WCF Connection**

**Connection Properties**

Service Metadata URL:   
http://localhost:808/mex  
**http://contoso.com:808/mex**  
http://contoso.com:8080/people.svc?wsdl  
http://contoso.com:8080/people.svc/\$meta

Metadata Connection Mode:   
REST  
WSDL  
**Metadata Exchange**

Service Endpoint URL:   
http://contoso.com:8080/  
http://localhost:8080/people.svc  
**http://contoso.com:8080/people.svc**  
http://contoso.com:8080/people.svc?wsdl

Name (optional):

☐ Use Proxy Server  
Proxy Server:

☐ Define custom proxy namespace for programmatic access.  
Proxy Namespace: BCSServiceProxy

**WCF Service Authentication Settings**

☐ Connect with User's Identity  
☒ Connect with Impersonated Windows Identity  
☐ Connect with Impersonated Custom Identity

Secure Store Application ID: PeopleSoftConnector

**QUESTION 22**

Drag and Drop Question

You develop a provider-hosted SharePoint app that retrieves and displays weather information from an external site. The site contains lists of temperatures for different cities. You need to create

a Representational State Transfer (REST) endpoint URL in the app to retrieve hourly temperatures for a specific city from the site. How should you complete the relevant code? (To answer, drag the appropriate term to the correct location or locations in the answer area. Each term may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Answer Area	
GET	<pre>string url = "http://www.contoso.com/ [ ] /_api/web/[ ] /getbytitle('" + cityName + "')/[ ]";  var listRequest =  (HttpWebRequest)HttpWebRequest.Create(url);  listRequest.Method = "[ ]";</pre>
items	
lists	
POST	
site=weather	
weather	

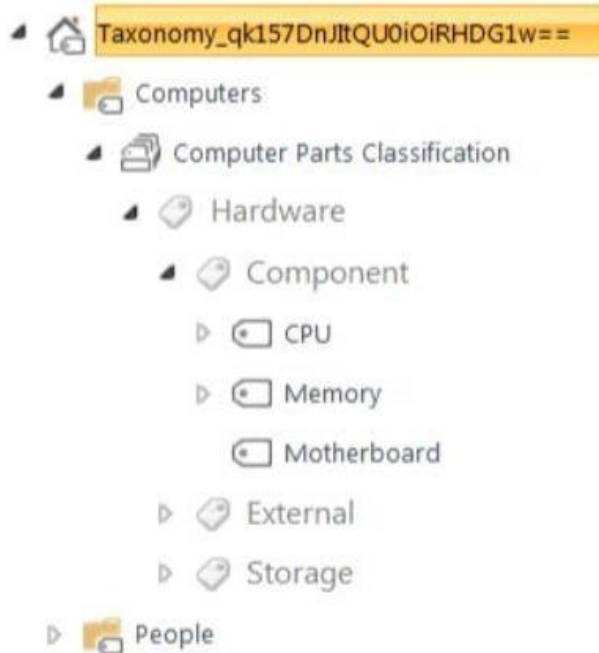
**Answer:**

Answer Area	
GET	<pre>string url = "http://www.contoso.com/[ ] /_api/web/[ ] /getbytitle('" + cityName + "')/[ ]";  var listRequest =  (HttpWebRequest)HttpWebRequest.Create(url);  listRequest.Method = "[ ] GET [ ]";</pre>
items	
lists	
POST	
site=weather	
weather	

### QUESTION 23

Hotspot Question

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



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

```
var d = ;
```

c.GetAllTerms()  
 c.Name  
 c.Terms

```
ctx.Load(d, s => s.Include(t => t.Name));
ctx.ExecuteQuery();
var e = d.SingleOrDefault(x => x.Name == "CPU");
var f = e.CreateTerm("i7-2600K", 1033,
```

);
 5  
 new Guid()  
 Guid.NewGuid()  
 "HDNCET-HFNTYE-ANDGE-PITNI-BCGHE"

```
f.IsAvailableForTagging = true;
f.SetCustomProperty("Manufacturer", "Contoso");
```

;
 ctx.Load(f)  
 ctx.LoadQuery(f)  
 ctx.ExecuteQuery()  
 ctx.GetFormDigestDirect()

**Answer:**

```
var d =  ;  


|                 |
|-----------------|
| c.GetAllTerms() |
| c.Name          |
| c.Terms         |

  
  
ctx.Load(d, s => s.Include(t => t.Name));  
ctx.ExecuteQuery();  
var e = d.SingleOrDefault(x => x.Name == "CPU");  
var f = e.CreateTerm("i7-2600K", 1033,  


|                                   |
|-----------------------------------|
| <input type="text"/>              |
| 5                                 |
| new Guid()                        |
| Guid.NewGuid()                    |
| "HDNCET-HFNTYE-ANDGE-PITNI-BOGHE" |

);  
  
f.IsAvailableForTagging = true;  
f.SetCustomProperty("Manufacturer", "Contoso");  


|                           |
|---------------------------|
| <input type="text"/>      |
| ctx.Load(f)               |
| ctx.LoadQuery(f)          |
| ctx.ExecuteQuery()        |
| ctx.GetFormDigestDirect() |

;
```

**Explanation:**

<https://gist.github.com/vgrem/46b1cded91a79da088bf>

**QUESTION 24**

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

- A. 1part-Classification
- B. part.classification
- C. part\_classification
- D. Part Classification

**Answer: B**

**QUESTION 25**

Drag and Drop Question

You develop a .NET application named SPUserProfiles for a company called Contoso, Ltd. SPUserProfiles communicates with a SharePoint app by using SharePoint Web Services. The SharePoint web service reference name is ProfileService. SPUserProfiles includes the following



code segment: (Line numbers are included for reference only.)

```
01 using SPUserProfiles.ProfileService;  
02 namespace SPUserProfiles  
03 {  
04     class Program  
05     {  
06         public static UserProfileService svc = new UserProfileService();  
07         static void Main(string[] args)  
08         {  
09             UpdatePhoneNumber();  
10         }  
11         ...  
12     }  
13 }
```

You need to implement the UpdatePhoneNumber method. How should you complete the relevant code? (To answer, drag the appropriate code segments to the correct target locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Answer Area	
<div><code>new PropertyData[1];</code></div> <div><code>new PropertyData();</code></div> <div><code>new ValueData();</code></div> <div><code>new ValueData[1];</code></div> <div><code>true;</code></div> <div><code>false;</code></div>	<pre>private static void UpdatePhoneNumber() {      PropertyData[] data = <input type="text"/>      data[0] = <input type="text"/>     data[0].Name = "HomePhone";     data[0].Values = <input type="text"/>      data[0].Values[0] = <input type="text"/>     data[0].Values[0].Value = "8321121101";     data[0].IsValueChanged = <input type="text"/>      svc.Credentials = System.Net.CredentialCache.DefaultCredentials;     svc.ModifyUserPropertyByAccountName("contoso\\Jhart", data); }</pre>

**Answer:**



new PropertyData[1];

new PropertyData();

new ValueData();

new ValueData[1];

true;

false;

Answer Area

```
private static void UpdatePhoneNumber()
{
    PropertyData[] data = new PropertyData[1];

    data[0] = new PropertyData();
    data[0].Name = "HomePhone";
    data[0].Values = new ValueData[1];

    data[0].Values[0] = new ValueData();
    data[0].Values[0].Value = "8321121101";
    data[0].IsValueChanged = true;

    svc.Credentials = System.Net.CredentialCache.DefaultCredentials;
    svc.ModifyUserPropertyByAccountName("contoso\\Jhart", data);
}
```

**QUESTION 26**

You develop a SharePoint app that reads social data from your company's SharePoint site. You need to access the SocialFeedManager object. Which object or URL should you use?

- A. [http://<siteUri>/\\_api/social.feed](http://<siteUri>/_api/social.feed)
- B. SocialFeedManager(ClientRuntimeContext, ObjectPath);
- C. <http://<siteUri>/social.feed>
- D. SPSocialFeedManager(UserProfile);

**Answer: A**

**Explanation:**

<http://msdn.microsoft.com/en-us/library/office/jj163237.aspx>

<http://msdn.microsoft.com/en-us/library/microsoft.sharepoint.client.social.socialfeedmanager>

**QUESTION 27**

Drag and Drop Question

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

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

**Answer:**

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

**QUESTION 28**

You have a custom Web Part that retrieves data across multiple task lists. Pages that contain the Web Part load slowly. You need to ensure that pages load as quickly as possible. Which methods should you use? (Each correct answer presents a complete solution. Choose all that apply.)

- A. CrossListQueryCache.GetSiteData(SPContext.Current.Site, siteUrl)
- B. Cross ListQneryCache.GetSiteData(SPContext.Current.Site)
- C. Cache.Get(siteUrl)
- D. SPList.GetItems(spQuery)

**Answer: AC**

**Explanation:**

A: GetSiteData method (SPSite, String). Gets the cache data from the specified site and from the specified webUrl.

C: Cache.Get Method. Retrieves the specified item from the Cache object.

#### QUESTION 29

Drag and Drop Question

You develop a SharePoint app for Contoso, Ltd. Contoso has offices in several countries. All of the local offices in each country are connected by using a Wide Area Network (WAN). Users store large data files in SharePoint document libraries. The users report that the files load very slowly. You need to ensure that the files are cached the first time that the files are opened at a local office. How should you complete the Windows PowerShell cmdlet? (To answer, drag the appropriate code segment 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.)

	Answer Area
<div>Close()</div> <div>Update();</div> <div>CacheAllSchema</div> <div>\$_GetSiteData()</div> <div>\$_OpenWeb();</div> <div>SetBranchCache</div> <div>EnableBranchCacheHashGeneration</div>	<pre>Get-SpSite("http://contoso.com")   ForEach {      \$spWeb = <input type="text"/>      \$spWeb. <input type="text"/> = \$true;      \$spWeb. <input type="text"/>  }</pre>

**Answer:**

	Answer Area
<div>Close()</div> <div>Update();</div> <div>CacheAllSchema</div> <div>\$_GetSiteData()</div> <div>\$_OpenWeb();</div> <div>SetBranchCache</div> <div>EnableBranchCacheHashGeneration</div>	<pre>Get-SpSite("http://contoso.com")   ForEach {      \$spWeb = <input type="text" value="\$_OpenWeb();"/>      \$spWeb. <input type="text" value="CacheAllSchema"/> = \$true;      \$spWeb. <input type="text" value="Update();"/>  }</pre>

**Explanation:**

<https://social.technet.microsoft.com/Forums/en-US/78146e9b-7aec-4e89-8db9-20ee0c057168/performance-issue-while-loading-the-files?forum=sharepointadmin>

#### QUESTION 30

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

Parent	Term name	Term ID
Term Store	Location	b49f64b3-4722-4336-9a5c-56c326b344d4
Location	Central	1acfae8a-70b4-4ce0-bfbf-96c0e711f8df
Central	Houston	b4c95e2f-32d7-460a-90b3-f7d8787fc48e
Central	Dallas	577c8e48-d5d9-4e5f-8e35-408c723feb11
Location	West	a79557ce-3db6-43f7-bfe3-81c652a10bf6
West	Las Vegas	11aaac5b-61a2-42ba-9529-09cbf23bb1c8
West	San Francisco	1489db3e-8540-4b83-8eaa-919467108011
Central	East	d0f8b6ca-2b57-460a-ad0c-62cb1b0c049d
East	Miami	2b81a4e9-4209-4083-8610-e3d25c397204

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

```

01 function executeQuery() {
02
03     Results = {
04         element: '', url: '', init: function (element) {
05             Results.element = element;
06             Results.url = _spPageContextInfo.webAbsoluteUrl +
07             "/_api/search/query?querytext='" + queryTerms + "'";
08         },
09     }

```

You need to create a Keyword Query Language (KQL) expression to return results for all assets in the Central region. Which code segment should you insert at line 02?

- A. var queryTerms = "Location";
- B. var queryTerms = "577c8e48-d5d9-4e5f-8e35-408c723feb11";
- C. var queryTerms = "b49f64b3-4722-4336-9a5c-56c326b344d4";
- D. var queryTerms = "owstaxidlocation: 1acfae8a-70b4-4ce0-bfbf-96c0e711f8df";

**Answer: C**

### QUESTION 31

Hotspot Question

You create a SharePoint app that displays a list of documents for a company that sells insurance policies. The documents have been crawled by the Search service. You create managed properties named Underwriter and Bonded. You must locate the documents that meet the following criteria:

- Created by using Microsoft Word 2002.
- Contains the exact phrase "life policy".
- Were underwritten by Woodgrove.

You need to design a search query that locates the required documents. How should you complete the relevant code? (To answer, select the appropriate code segment from each drop-down list in the answer area.)

```
function executeQuery() {
```

```
var queryTerms = "
  [Dropdown 1] [Dropdown 2]
  pol*
  life
  \"life policy\"
  'life insurance'
  company:Woodgrove
  underwriter:'Woodgrove'
  underwriter=Woodgrove

queryTerms += "
  [Dropdown 3] write<10/01/2012";
  filetype:docx
  fileextension:doc
  filetype:pdf
  fileextension:txt
```

**Answer:**

```
function executeQuery() {
```

```
var queryTerms = "
  [Dropdown 1] [Dropdown 2]
  pol*
  life
  \"life policy\"
  'life insurance'
  company:Woodgrove
  underwriter:'Woodgrove'
  underwriter=Woodgrove

queryTerms += "
  [Dropdown 3] write<10/01/2012";
  filetype:docx
  fileextension:doc
  filetype:pdf
  fileextension:txt
```

### QUESTION 32

You create a SharePoint site collection for a law firm. You create the following objects in the site collection.

SharePoint object	Name	Description
Site column	CaseID	Contains numeric data
Content type	Case	Uses the CaseID site column
List	Cases	Uses the Case content type Contains archived and current legal case information Current cases have a CaseID that is more than 1000
Managed property	MPCaseID	Maps to the ows_CaseID crawled property

A user searches for a legal case. The search results must contain only current cases. You need to create a custom result type that displays only current cases. Which object should you use?

- A. Cases
- B. MPCaseID
- C. case
- D. ows\_CaseID



E. CaseID

**Answer: B**

**QUESTION 33**

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

```
01 <!--#
02     var deliveryMethod = $getItemValue(ctx, "DeliveryMethod");
03     var tax = $getItemValue(ctx, "Tax");
04     var curTax = parseFloat(tax).toFixed(2);
05
06     var airbillTimeDays = airbillTime + ' days';
07     var outForDel = $getItemValue(ctx, "OutForDelivery");
08 _#-->
09
10 <table class="boldness">
11     <tr>
12         <td>Delivery Method: _#= deliveryMethod.toString() =#_</td>
13
14
15         <td>Out For Delivery: _#= outForDel.toString() =#_</td>
16     </tr>
17 </table>
```

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

Delivery Method: Consolidated Messenger	Sales Tax: 2.78	Air Bill Time: 2 days	Out for Delivery: No
---	-----------------	-----------------------	----------------------

You need to implement the custom display template. What should you do? (Each correct answer presents part of the solution. Choose all that apply.)



- ☐ A. Insert the following code segment at line 14:

```
<td>Air Bill Time: _#= airbillTimeDays =#_</td>
```

- ☐ B. Insert the following code segment at line 14:

```
<td>Air Bill Time: _#= airbilltime =#_</td>
```

- ☐ C. Insert the following code segment at line 05:

```
var airbillTime = $getItemValue(ctx, "Air Bill Time");
```

- ☐ D. Insert the following code segment at line 13:

```
<td>Sales Tax: _#= curTax =#_</td>
```

- ☐ E. Insert the following code segment at line 14:

```
<td>Air Bill Time: _#= airbillTime =#_</td>
```

- ☐ F. Insert the following code segment at line 13:

```
<td>Sales Tax:<#= tax =#></td>
```

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

**Answer: ACD**

#### **QUESTION 34**

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

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

discoverable content.

**Answer: D**

## Case Study: 1 - Trey Research (QUESTION 35 - QUESTION 47)

### Background

You develop an intranet portal for Trey Research. End users of the portal are researchers and office staff.

### Business Requirements

All end users must be able to customize their profile with relevant information. Researchers must store research papers, upload supporting documents, and search content.

### Storage

The portal must use an existing Microsoft SQL Server database to access and store work profile information and research papers.

### Data Access

- \* The portal must use Business Connectivity Services (BCS) to access data from external systems.Search.
- \* Researchers must search content from SharePoint and external systems.Content Management.
- \* Researchers must manage a research topic and related content as a single entity.

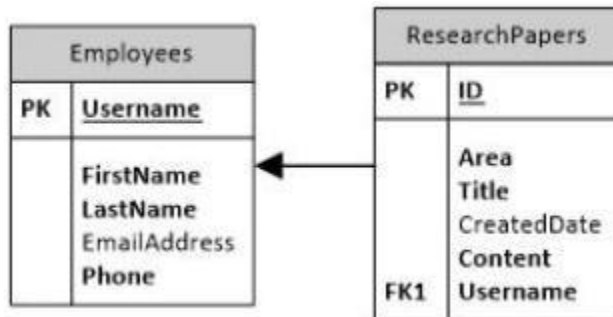
### User Profile

- \* Employees must be able to customize their profile.
- \* Administrators must be able to create new profile properties.

### Technical Requirements

#### Data Store

The data model for the database entities is shown below:



Users must not be allowed to update the Employees. Username and ResearchPapers.ID fields. The fields uniquely distinguish the corresponding entity.

### Access External Data

- \* You must create an external content type named TreyResearch to access the SQL data source. During development, the data source will be accessible locally.
- \* You must develop an app to access the fields named Employee Name and Research Paper Title.
- \* Researchers must be able to find all research papers that are written by a particular employee.
- \* A research paper always must be associated with the employee that wrote it.

### Document Management

- \* Researchers must be able to upload research papers and relevant supporting materials into a document set named Research Content.
- \* All the document sets must be stored in a list named ResearchPapers.
- \* All documents that are uploaded must contain the prefix DOC in the file

name.

#### **Environment**

The SQL database will be on a different physical server when the solution is deployed to a production environment. The solution must use the SQL Server user named sqltrey to connect to the database. The BCS service is configured and running in the production environment.

#### **Personalize**

- \* You must use custom profile properties to add a new section to the user profile properties page.
- \* The solution must use the client-side object model (CSOM) to upload employee profile pictures.
- \* Employees must be able to change their display name on the site.
- \* Each employee's page must display the value of the DisplayName and Title fields.

#### **Search**

- \* The Microsoft Bing API web service must be used to search for research papers. No code must be written.
- \* The app must use a Content Enrichment web service named AbstractIndexer. The app must use the AbstractIndexer service to index search content.
- \* The solution must store large-sized media files in a dedicated SQL Server database.
- \* The database must use the ResearchPapers.ID field as the foreign key to associate the field with the TreyResearch external content type.

#### **Application Structure**

Relevant portions of the solution files are shown below. (Line numbers in the code segments are included for reference only and include a two-character prefix that denotes the specific file to which they belong.)

#### **App.js**

```
AJ01  var context;
AJ02  var web;
AJ03  var user;
AJ04
AJ05
AJ06  $.ajax({
AJ07      url: listURL,
AJ08      headers: {
AJ09          "accept": "application/json",
AJ10          "X-RequestDigest": $("#__REQUESTDIGEST").val()
AJ11      },
AJ12      success: this.showItems,
AJ13      error: this.failMethod
AJ14  });
AJ15  }
AJ16
AJ17  this.showItems = function (data) {
AJ18      $("#Container").children().remove();
AJ19      $.each(data.d.results, function (key, val) {
AJ20          var item = $("#EmployeeInfoTemplate").clone()
AJ21          .attr("id", val.BdcIdentity)
AJ22          .fadeIn("slow");
AJ23          ...
AJ24          item.appendTo("#Container");
AJ25      });
AJ26  }
AJ27
AJ28  this.failMethod = function (jqXHR, textStatus, errorThrown) {
AJ29      alert('Failed: ' + errorThrown);
AJ30  }
AJ31  }
AJ32  ExecuteOrDelayUntilScriptLoaded(getEmployees, "sp.js");
AJ33  });
AJ34
AJ35  function getEmployees() {
AJ36      var grid = new AppLevelECT.Grid
AJ37      ("ColumnContainer", 3, _spPageContextInfo.webServerRelativeUrl);
AJ38      grid.init();
AJ39  }
```

**ManageUserProfiles.cs**

```
MP01 namespace ManageUserProfiles
MP02 {
MP03     class ProfileProperties
MP04     {
MP05         public static void AddProfileProperty(string name, string displayName,
MP06         bool isMultivalued)
MP07         {
MP08             using (SPSite site = new SPSite("http://treyresearch.com/users"))
MP09             {
MP10                 SPServiceContext svcContext = SPServiceContext.GetContext(site);
MP11                 try
MP12                 {
MP13                     ProfilePropertyManager prfPropMgr;
MP14                     ProfileSubtypeManager prfTypeMgr;
MP15                     ProfileSubtypePropertyManager prftypePropMgr;
MP16                     ProfileTypePropertyManager typPropMgr;
MP17                     ProfileSubtypeProperty prfTypeProp;
MP18                     ProfileTypeProperty prfProp;
MP19                     ProfileSubtype prfType;
MP20                     CorePropertyManager corePropMgr;
MP21                     CoreProperty coreProp;
MP22                     prfPropMgr = new UserProfileConfigManager(svcContext)
MP23                     .ProfilePropertyManager;
MP24                     prfTypeProp = prftypePropMgr.Create(prfProp);
MP25                     prfTypeProp.IsUserEditable = true;
MP26                     prfTypeProp.DefaultPrivacy = Privacy.Public;
MP27                     prfTypeProp.UserOverridePrivacy = true;
MP28                     prftypePropMgr.Add(prfTypeProp);
MP29                 }
MP30                 catch (System.Exception e)
MP31                 {
MP32                     throw new Exception("Error occurred: " + e.ToString());
MP33                 }
MP34             }
MP35         }
MP36     }
MP37 }
MP38
MP39
MP40 public void UploadPicture(string account, string picURL)
MP41 {
MP42     try
MP43     {
MP44     }
MP45     catch (Exception e)
MP46     {
MP47         throw new Exception("Error occurred: " + e.ToString());
MP48     }
MP49 }
MP50 }
MP51
MP52 public UserProfileProperties GetUserProfileProperties(string account)
MP53 {
MP54     var userprfProps = new UserProfileProperties();
MP55
MP56     var clientContext = new ClientContext("http://treyresearch.com/users");
```

**ContentManagement.cs**



```
CM01 private void CreateDocumentSets()  
CM02 {  
CM03     using (SPSite site = new SPSite("http://treyresearch.com/sites"))  
CM04     {  
CM05         using (SPWeb web = site.RootWeb)  
CM06         {  
CM07               
CM08         }  
CM09     }  
CM10 }
```

**QUESTION 35**

Drag and Drop Question

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

	Answer Area
Create(coreProp)	corePropMgr = prfPropMgr.GetCoreProperties();
Create(corePropMgr)	coreProp = corePropMgr. <input type="text"/> ;
Create(true)	coreProp.Name = name; coreProp.DisplayName = displayName; coreProp.IsMultivalued = isMultivalued; coreProp.Type = <b>PropertyDataType</b> .StringMultiValue; coreProp.Length = 1024; corePropMgr.Add(coreProp); typPropMgr = prfPropMgr
Create(false)	• <input type="text"/> (ProfileType.User);
GetProfileSubtypeProperties	prfProp = typPropMgr. <input type="text"/> ;
GetProfileTypeProperties	prfProp.IsVisibleOnViewer = true; typPropMgr.Add(prfProp); ... prfTypePropMgr = prfPropMgr
GetCoreProperties	• <input type="text"/> (prfType.Name);

**Answer:**

Answer Area	
<div>Create (corePropMgr)</div> <div>Create (true)</div> <div>GetCoreProperties</div>	<pre> corePropMgr = prfPropMgr.GetCoreProperties();  coreProp = corePropMgr. <div>Create (false)</div> ;  coreProp.Name = name; coreProp.DisplayName = displayName; coreProp.IsMultivalued = isMultivalued; coreProp.Type = PropertyDataType.StringMultiValue; coreProp.Length = 1024; corePropMgr.Add(coreProp); typPropMgr = prfPropMgr  . <div>GetProfileTypeProperties</div> (ProfileType.User);  prfProp = typPropMgr. <div>Create (coreProp)</div> ;  prfProp.IsVisibleOnViewer = true; typPropMgr.Add(prfProp); ... prfTypePropMgr = prfPropMgr  . <div>GetProfileSubtypeProperties</div> (prfType.Name); </pre>

### QUESTION 36

Drag and Drop Question

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

Answer Area	
<div>clientContext.Load(usrPrfProps);</div> <div>clientContext.LoadQuery(usrPrfProps);</div> <div>.GetUserProfilePropertyFor(usrPrfProps);</div> <div>.GetUserProfilePropertiesFor(usrPrfProps);</div> <div>string[] prfProps = new string[] { "DisplayName", "Title" };</div> <div>string[] prfProps = new string[] { "PreferredName", "Title" };</div> <div>var prfProps = new ArrayList() { "DisplayName", "Title" };</div>	<pre> var peopleManager = new PeopleManager(clientContext);  var usrPrfProps = new UserProfilePropertiesForUser(clientContext, account, prfProps); var profilePropertyValues = peopleManager.  clientContext.ExecuteQuery(); </pre>

**Answer:**

Answer Area	
<div>clientContext.Load(usrPrfProps);</div> <div>clientContext.LoadQuery(usrPrfProps);</div> <div>.GetUserProfilePropertyFor(usrPrfProps);</div> <div>.GetUserProfilePropertiesFor(usrPrfProps);</div> <div>string[] prfProps = new string[] { "DisplayName", "Title" };</div> <div>string[] prfProps = new string[] { "PreferredName", "Title" };</div> <div>var prfProps = new ArrayList() { "DisplayName", "Title" };</div>	<pre> var peopleManager = new PeopleManager(clientContext);  string[] prfProps = new string[] { "DisplayName", "Title" };  var usrPrfProps = new UserProfilePropertiesForUser(clientContext, account, prfProps); var profilePropertyValues = peopleManager.  .GetUserProfilePropertiesFor(usrPrfProps);  clientContext.Load(usrPrfProps);  clientContext.ExecuteQuery(); </pre>

### QUESTION 37

You need to configure the external content type to search for research papers. Which indexing connector should you use?

- A. .NET Type Connector
- B. WCF Service Connector
- C. Custom Connector
- D. SQL Server Connector

**Answer: B**

**Explanation:**

Microsoft SQL Connector allows you to send and receive messages with a database using the JDBC protocol. Common usage includes retrieving, inserting, updating, and deleting database records, as well as invoking stored procedures. You can simply discover your database, point to the table, view, or stored procedure that will perform the operations you want, and then return the required data and use it to create your external content type without writing any code or XML based on a SQL Server Table. Windows Communication Foundation (WCF) web services that you can consume as external content types from Microsoft Business Connectivity Services (BCS). You can simply discover your WCF service and point to the bindings and contracts that will perform the desired operations, and use it to create your external content type without writing any code or XML. The procedure to create an external content type that connects to a WCF service is similar to one that connects to a Web service. As the database must use the ResearchPapers.ID field as the foreign key to associate the field with the Trey Research external content type, you need to use WCF Service Connector for configuring the external content type to search for research papers.

**QUESTION 38**

You need to generate document identifiers for each new document that is uploaded to the site. What should you do?

- A. Create a derived class that inherits from the abstract class named Microsoft.Office.DocumentManagement.DocumentId and then override all of the abstract methods.
- B. Create a derived class that inherits from the abstract class named Microsoft.Office.DocumentManagement.DocumentIdProvider and then override all of the virtual members.
- C. Create a derived class that inherits from the Microsoft.Office.DocumentManagement.DocumentIdProvider abstract class and then implement all abstract members.
- D. Create a class to implement the Microsoft.Office.DocumentManagement.DocumentId interface and then override all of the virtual members.

**Answer: C**

**Explanation:**

A non-abstract class derived from an abstract class must include actual implementations of all inherited abstract methods and accessors.

<https://msdn.microsoft.com/en-us/library/sf985hc5.aspx>

**QUESTION 39**

Drag and Drop Question

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

Answer Area
Add the sqltrey user login to the Secure Store Service.
Configure permissions to allow the user that is logged in to have access to the Secure Store Service.
Stop the Business Data Connectivity service.
Create a Secure Store Service application as a target application.
Connect to the external data source by using the Impersonated Custom Identity and the target application name.
Connect to the external data source by using the Impersonated Windows Identity and the target application name.

**Answer:**

Answer Area
Create a Secure Store Service application as a target application.
Add the sqltrey user login to the Secure Store Service.
Connect to the external data source by using the Impersonated Windows Identity and the target application name.

**QUESTION 40**



### Drag and Drop Question

You need to add code at line AJ05 to complete the implementation of the app. How should you complete the relevant code? (To answer, drag the appropriate code segment to the correct location in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

	Answer Area
<div>context.load(user);</div> <div>context.init(user);</div> <div>Lists/GetByTitle</div> <div>Lists/GetByName</div> <div>FirstName, LastName, Title</div> <div>FirstName, LastName, Phone</div>	<pre>function sharePointReady() {     context = new SP.ClientContext.get_current();     web = context.get_web();     user = web.get_currentUser();      context.executeQueryAsync(\$('#message').text('Hello ' +         user.get_title()), alert('Failed to get user name.)); } \$(document).ready(function () {     window.AppLevelECT = window.AppLevelECT    {};     AppLevelECT.Grid = function (surlWeb) {         this.init = function () {             var listURL = surlWeb +              "_api/" + _____ ('Employees')/items?" +              "\$select=BdcIdentity, _____ ";         }     } }</pre>

### Answer:

	Answer Area
<div>context.load(user);</div> <div>context.init(user);</div> <div>Lists/GetByTitle</div> <div>Lists/GetByName</div> <div>FirstName, LastName, Title</div> <div>FirstName, LastName, Phone</div>	<pre>function sharePointReady() {     context = new SP.ClientContext.get_current();     web = context.get_web();     user = web.get_currentUser();      context.load(user);      context.executeQueryAsync(\$('#message').text('Hello ' +         user.get_title()), alert('Failed to get user name.)); } \$(document).ready(function () {     window.AppLevelECT = window.AppLevelECT    {};     AppLevelECT.Grid = function (surlWeb) {         this.init = function () {             var listURL = surlWeb +              "_api/" + Lists/GetByTitle ('Employees')/items?" +              "\$select=BdcIdentity, FirstName, LastName, Phone ";         }     } }</pre>

### QUESTION 41

#### Hotspot Question

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



**Properties**

Data Source Element:	Username
.NET Type:	System.String
Map to Identifier:	<input checked="" type="checkbox"/>
Identifier:	<input type="text" value="Username"/>
Field:	<input type="text" value="Username"/>
Display Name:	<input type="text" value="Username"/>
Foreign Identifier:	<a href="#">(Click to Add)</a>
Required:	<input type="checkbox"/>
Read-Only:	<input type="checkbox"/>
Office Property:	<input type="text" value="Unmapped"/>
Show In Picker:	<input type="checkbox"/>
Timestamp Field:	<input type="checkbox"/>

**Answer:**

**Properties**

Data Source Element:	Username
.NET Type:	System.String
Map to Identifier:	<input checked="" type="checkbox"/>
Identifier:	<input type="text" value="Username"/>
Field:	<input type="text" value="Username"/>
Display Name:	<input type="text" value="Username"/>
Foreign Identifier:	<a href="#">(Click to Add)</a>
Required:	<input checked="" type="checkbox"/>
Read-Only:	<input checked="" type="checkbox"/>
Office Property:	<input type="text" value="Unmapped"/>
Show In Picker:	<input type="checkbox"/>
Timestamp Field:	<input type="checkbox"/>

**QUESTION 42**

## Hotspot Question

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

```
SPList lst = web.Lists[""];  
  
SPFolder folder = lst.RootFolder;  
SPContentType docsetCT = lst.ContentTypes["Document Set"];  
  
Hashtable properties = new ();  
  
properties.Add("Name", "Research Name");  
properties.Add("Description", "Research Description");  
properties.Add("Content1", "Video File Name");  
properties.Add("Content2", "Audio File Name");  
var docSet = DocumentSet.  
  
Create(folder, "Research Content", lst, properties);  
Create(folder, "Research Documents", docsetCT.Id, properties, true);
```

**Answer:**

```
SPList lst = web.Lists[""];  
  
SPFolder folder = lst.RootFolder;  
SPContentType docsetCT = lst.ContentTypes["Document Set"];  
  
Hashtable properties = new ();  
  
properties.Add("Name", "Research Name");  
properties.Add("Description", "Research Description");  
properties.Add("Content1", "Video File Name");  
properties.Add("Content2", "Audio File Name");  
var docSet = DocumentSet.  
  
Create(folder, "Research Content", lst, properties);  
Create(folder, "Research Documents", docsetCT.Id, properties, true);
```

**QUESTION 43**

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

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

**Answer: B**

**QUESTION 44**

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

- ☐ A. 

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

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

```
using (SPSite site = new SPSite("http://treyresearch.com/users"))
{
    var upm = new UserProfileManager(clientContext);
    var up = upm.GetUserProfile(account);
    Stream sr = new System.IO.FileStream(picURL, FileMode.Open);
    up.PictureUrl.SetMyProfilePicture(sr);
    up.Commit();
}
```
- ☐ D. 

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

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

**Answer: B**

**QUESTION 45**

You need to ensure that employees can change their display name. Which object model should you use?

- A. Use the server-side object model.
- B. Use a Representational State Transfer (REST) based service.
- C. Use the JavaScript object model.
- D. Use the .Net client-side object model.

**Answer: A**

**QUESTION 46**

You need to search for research papers that contain media files. What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

- A. Add an Association operation from the ResearchPapers. ID field to the Windows Media Service.
- B. Use Remote BLOB storage.
- C. Add an Association operation from the ResearchPapers. ID field to the TreyResearch external content type.
- D. Create a SQL Server-based external content type.

**Answer: BD**

**QUESTION 47**

You need to configure the Content Enrichment web service to index content from the AbstractIndexer service. What should you do?

- A. Set the value of the OutputProperties array to Trigger=True.
- B. Set the value of the SendRawData property to false.
- C. Configure conditions for the Trigger property.
- D. Set the value of the InputProperties property to Trigger=True.

**Answer: A**

**Case Study: 2 - Lucerne Publishing (QUESTION 48 - QUESTION 59)**

**Background**

You are hired by Lucerne Publishing to design and implement a new public-facing Internet site by using SharePoint. Lucerne Publishing also needs an intranet site to host sensitive documents and content.

**Business Requirements**

**Internet**

Content owners must be able to:

- \* Modify content in pages that are published for anonymous site visitors.
- \* Modify search engine optimization (SEO) properties to optimize visibility of the web site.
- \* Create content in multiple languages and use automatic translation.

**Intranet**

\* Each department must have its own site. Each department home page must display relevant information about the department and contact information

for employees.

- \* Each user is encouraged to create their own blog, on which they will publish information about current projects and get feedback from other users in the company.

- \* Personalized content must be displayed for an employee when an employee accesses the intranet. The page must include a feed that displays updates from other users' blog posts.

### **Technical Requirements**

#### **Service Applications**

- \* The Internet and intranet web applications must use the Managed Metadata Service (MMS). Both web applications use a separate MMS service application and do not share term sets.

- \* The intranet web application uses the User Profile Service Application (UPA).

- \* The intranet uses all available social features of the UPA. Users follow, mention, and identify documents and people. Users often discuss news by using hash tags.

You must develop an app part that allows the current user to show different top feeds from user profiles. The hardware that hosts the Internet site must handle thousands of concurrent users.

#### **URLs**

The following table lists the URLs that the SharePoint sites will use.

Site	URL
Public-facing Internet site	http://www.lucernepublishing.com
Intranet	http://intranet.lucernepublishing.com
My Sites	http://my.lucernepublishing.com

#### **Search Engine Optimization (SEO)**

- \* You must implement search engine optimization for the public-facing Internet site. SharePoint must produce a site map file.

- \* You must publish data from the intranet site to the Internet web site by using cross-site publishing. You must define a catalog, add the data, and publish it to the Internet site.

- \* You must create a custom tool that site collection administrators use to manage catalog connections.

- \* You must define the API calls to remove or update existing catalog connections.

#### **Filtering**

You must enable canonical URL filtering to improve ranking by Internet search engines. The Internet site that must use canonical filtering has the following URL:

http://www.lucernepublishing.com/products/pages/products.aspx?productID=<num>&productCategory=<category>

You must define the filters that the site collection administrator uses.

#### **Internet**

You publish the Internet site for multiple device types, such as mobile phones and tablet devices. The solution uses multiple master pages. Device channels select the master page to display based upon the capabilities of the device that connects to the site. The following table lists the device channels and master pages that the site uses.



Master page	Device channels
Phone	Three device channels use the Phone master page, including one called Windows Phone that has an alias named WinPhone.
Tablet	There are two device channels that use the Tablet master page.
Default	Any device that is not included in other device channels uses a device channel named Default. The Default channel uses the Default master page.

You create a Windows Phone app. When users access the site by using a Windows phone, a message must appear on every page of the mobile site. The message must notify users that they can download the Windows Phone app to their phone. The HTML that contains the message must render only to the Windows phones.

#### **Intranet**

- \* Each department must have its own site collection.
- \* Each employee must have Reader permissions to their department site collection.
- \* Employees access the intranet site by using a wide variety of devices.
- \* Some employees report that the home page loads slowly. You investigate the issue and find out that the size of some images is very large. You must enable image renditions on the intranet site collection.
- \* You must develop an app part that displays information from the users' personal sites and news feeds.

#### **Custom Development**

- \* You design an application framework. The framework is used by other developers on the team. The framework must include entry points that are used to log errors and exceptions. You need the entry points.
- \* You create a custom Visual Web Part in a solution package. You deploy the solution package as a farm solution by using Windows PowerShell. An error message that includes a correlation ID displays when you add the custom Visual Web Part to a SharePoint site.
- \* You must create a tool to maintain social links. The tool must:
  - Allow the current user to follow another user.
  - Return true if the target user is currently being followed by the current user.
- \* You develop a Windows Store app that synchronizes data between the intranet sites and the app to allow users to work offline.

#### **Performance Improvement**

- \* You have not modified the Request Management configuration.
- \* You must implement caching in your custom code to improve the performance of the company's intranet site.
- \* The SharePoint front-end web servers are load-balanced. Each request within a user session can be processed by different front-end web servers.
- \* Objects that are cached must always be available, regardless of which front-end web server processes the request.
- \* You must monitor the amount of memory that is available and the number of current requests for each server.

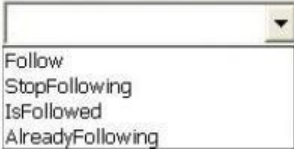
#### **QUESTION 48**

##### **Hotspot Question**

You need to implement the social maintenance tool. How should you complete the relevant code? (To answer, select the appropriate option from each dropdown list in the answer area.)

```
protected bool follow(ClientContext context,
    SocialFollowingManager fm, string user)
{
    SocialActorInfo info = new SocialActorInfo();
    info.AccountName = user

    ClientResult<SocialFollowResult>

    result = fm.  (info);

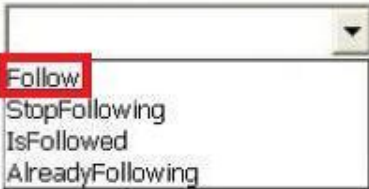
    context.ExecuteQuery();

    if (result.Value ==
        SocialFollowResult.  )
    {
        return true;
    }
    return false;
}
```


**Answer:**

```
protected bool follow(ClientContext context,
    SocialFollowingManager fm, string user)
{
    SocialActorInfo info = new SocialActorInfo();
    info.AccountName = user

    ClientResult<SocialFollowResult>

    result = fm.  (info);

    context.ExecuteQuery();

    if (result.Value ==
        SocialFollowResult.  )
    {
        return true;
    }
    return false;
}
```

#### QUESTION 49

You need to implement caching in your code. Which caching option should you use?

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

**Answer: C**

**QUESTION 50**

Drag and Drop Question

You need to notify Windows phone users about the new Windows phone app. 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.)

	Answer Area
Use JavaScript to set the value of the <b>display</b> property to <b>block</b> if the master page is being accessed by a Windows phone.	
Add a <div> tag that contains the notification message to the master page and set the default Cascading Style Sheets (CSS) <b>display</b> property to <b>none</b> .	
Edit the master page named Default.	
Set the value of the <b>IncludedChannels</b> property to <b>WinPhone</b> .	
Edit the master page named Phone.	
Add a device channel panel that contains the notification message to the master page.	
Set the value of the <b>IncludedChannels</b> property to <b>Default</b> .	

**Answer:**

Answer Area	
Use JavaScript to set the value of the <b>display</b> property to <b>block</b> if the master page is being accessed by a Windows phone.	Edit the master page named Phone.
Add a <div> tag that contains the notification message to the master page and set the default Cascading Style Sheets (CSS) <b>display</b> property to <b>none</b> .	Add a device channel panel that contains the notification message to the master page.
Edit the master page named Default.	
Set the value of the <b>IncludedChannels</b> property to <b>WinPhone</b> .	Set the value of the <b>IncludedChannels</b> property to <b>WinPhone</b> .
Edit the master page named Phone.	
Add a device channel panel that contains the notification message to the master page.	
Set the value of the <b>IncludedChannels</b> property to <b>Default</b> .	

**QUESTION 51**

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

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

**Answer: ABE**

**Explanation:**

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

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

**QUESTION 52**

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

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

**Answer: E**

**QUESTION 53**

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

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

**Answer: AC**

**QUESTION 54**

Hotspot Question

You need to implement the social features. How should you complete the relevant code? (To answer, select the appropriate option from the dropdown list in the answer area.)



```

    feedManager =
        new SocialFeedManager(clientContext);

    SocialFeedOptions feedOptions = new SocialFeedOptions();
    feedOptions.MaxThreadCount = 10;
    ClientResult<SocialFeed> GetCurrentuserFeed =
        feedManager.GetFeed(
            SocialFeedType.Personal, feedOptions);

    ClientResult<SocialFeed> GetInformativeFeed =
        feedManager.GetFeed(
            SocialFeedType.TimeLine, feedOptions);

    ClientResult<SocialFeed> GetMyHRManagerFeed =
        feedManager.GetFeed(
            SocialFeedType.Like, feedOptions);

    clientContext.ExecuteQuery();
```

**Answer:**

```

    feedManager =
        SocialFeed
        SocialFeedManager
        SocialFeedAttributes

    new (clientContext);
        SocialFeed
        SocialFeedManager
        SocialFeedAttributes

    SocialFeedOptions feedOptions = new SocialFeedOptions();
    feedOptions.MaxThreadCount = 10;
    ClientResult<SocialFeed> GetCurrentuserFeed =
        feedManager.GetFeed(
            SocialFeedType.Personal
            SocialFeedType.Likes
            SocialFeedType.Everyone
        , feedOptions);

    ClientResult<SocialFeed> GetInformativeFeed =
        feedManager.GetFeed(
            SocialFeedType.TimeLine
            SocialFeedType.Like
            SocialFeedType.News
        , feedOptions);

    ClientResult<SocialFeed> GetMyHRManagerFeed =
        (HRManager, feedOptions);
        feedManager.GetFeed
        feedManager.GetFeedFor
        feedManager.GetUnreadMentionCount

    clientContext.ExecuteQuery();

```

**QUESTION 55**

You need to ensure that the data synchronization does not affect the end user experience on the intranet. What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

- ☐ A. Add the following code to the application:

```
clientContext.ApplicationName = "Lucerne Win8 Sync";
```

- ☐ B. Add the following code to the application:

```
clientContext.ExecutingWebRequest += (s, e) => {  
    e.WebRequestExecutor.WebRequest.CookieContainer =  
        createCookieContainer();  
    e.WebRequestExecutor.WebRequest.UserAgent =  
        "Lucerne Publishing/1.0 (Lucerne Win8 Sync; Version 1.0.0.0)";  
};
```

- ☐ C. Run the following PowerShell cmdlet:

```
$spWebApp = Get-SPWebApplication -Identity http://intranet.lucernepublishing.com  
$rmSettings = Get-SPRequestManagementSettings -Identity $spWebApp  
$throttleCriteria = New-SPRequestManagementRuleCriteria  
-Property UserAgent -MatchType Regex -Value ".*Lucerne Win8 Sync*"  
Add-SPThrottlingRule -RequestManagementSettings $rmSettings  
Name "Lucerne Win8 Sync" -Criteria $throttleCriteria -Threshold 8
```

- ☐ D. Run the following PowerShell cmdlet:

```
$spWebApp = Get-SPWebApplication -Identity http://intranet.lucernepublishing.com  
$rmSettings = Get-SPRequestManagementSettings -Identity $spWebApp  
$throttlingRule = Get-SPThrottlingRule -RequestManagementSettings  
$rmSettings -Name "Lucerne Win8 Sync"  
$throttleCriteria = New-SPRequestManagementThrottleCriteria  
-Property UserAgent -MatchType Regex -Value ".*Lucerne Win8 Sync*"  
Set-SPThrottlingRule -Identity $throttlingRule -Criteria $throttleCriteria -Threshold 8
```

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

**Answer: AC**

#### QUESTION 56

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

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

**Answer: AB**

**Explanation:**

<http://msdn.microsoft.com/en-us/library/system.diagnostics.eventlog.writeevent%28v=vs.110%29.aspx>  
<http://msdn.microsoft.com/en-us/library/microsoft.sharepoint.diagnostics.ulslogentry.aspx>

**QUESTION 57**

You need to configure filtering for the Product page. Which filtering option should you use?

- A. products/pages/products.aspx?productID=\* & .productCategory=\*
- B. products.aspx;productID;productCategory;lucernepublshing.com
- C. products; productID; productCategory;lucernepublishing.com
- D. products/pages/products.aspx?\*
- E. productID;productCategory

**Answer: E**

**QUESTION 58**

You create a custom Visual Web Part. You deploy the solution package to the farm by using Windows PowerShell. When you try to add the custom Visual Web Part to a SharePoint site, an error message displays that includes a correlation ID. You need to determine the cause of the error. What should you do? (Each correct answer presents complete solution. Choose all that apply.)

- A. Run the Get-SPLogEvent Windows PowerShell cmdlet.
- B. Run the Get-SPDiagnosticConfig Windows PowerShell cmdlet.
- C. Run the Get-SPHealthAnalysisRule Windows PowerShell cmdlet.
- D. View the Service Calls tab on the Developer Dashboard.
- E. View the Unified Logging Service (ULS) tab on the Developer Dashboard.

**Answer: AE**

**Explanation:**

<http://ittechnotebook.blogspot.co.uk/2013/07/how-to-find-real-error-in-sharepoint.html>

**Note:**

In the real exam this question is single answer question and the E option is not there.

**QUESTION 59**

You need to retrieve the required performance counters. What should you do?

- ☐ A. Run the following Windows PowerShell cmdlet:

```
Get-Counter -Counter "\Processor(_Total)\% Processor Time"
```

- ☐ B. Run the following Windows PowerShell cmdlet:

```
Get-SPWebApplicationHttpThrottlingMonitor
```

- ☐ C. Run the following Windows PowerShell cmdlet:

```
Get-SPRequestManagementSettings
```

- ☐ D. Run SQL Server Profiler.

A. Option A

- B. Option B
- C. Option C
- D. Option D

**Answer: B**

### **Case Study: 3 – Contoso, Ltd. (QUESTION 60 - QUESTION 71)**

#### **Background**

Contoso, Ltd. is a global real estate company. You are hired to replace the company's existing ASP.NET website at <http://www.contoso.com> with a new SharePoint 2013 public-facing website. The site will display data about the company and information about residential properties that the individual agents in the company are selling. You have SharePoint Server environments for development, staging, and production.

#### **Search**

The website has the following requirements:

- \* Site visitors must be able to search for documents that are located anywhere on the site.
- \* When site visitors search for real estate properties, they must see information about a property.
- \* When a visitor searches for the word Guidelines, a PDF document named Real Estate Guidelines must appear at the top of the search results.

#### **Search Engine Optimization**

The company wants to ensure that the website displays prominently in Internet search results when people search for real estate. The website has the following requirements:

- \* Internet search engines must properly rank pages so that the more popular pages on the site appear first in the Internet search engine results.
- \* SharePoint must generate the sitemap.xml and robots.txt files that are used by Internet search engines.

When an Internet search engine crawls the site, the search engine must recognize that the following URLs display information about different agents:

\*

<http://www.contoso.com/FindAnAgent?agentName=JohnDo&;officeId=Sacramento>

o

\* <http://www.contoso.com/FindAnAgent?agentName=JohnDo&;officeId=Houston>

The search engine must recognize that the following URLs display the same information about the same agent:

\*

<http://www.contoso.com/FindAnAgent?agentName=JohnDo&;officeId=Sacramento>

o

\*

<http://www.contoso.com/FindAnAgent?agentName=JohnDo&;officeId=Sacramento&o8icerts=true>

#### **Managed Metadata Service (MMS)**

The MMS must include three term sets named Offices, Cities, and Features.

#### **Offices Term Set**

The Offices term set has the following requirements:

- \* The Offices term set must be a child of the group named Navigation.
- \* The Offices term set must be configured to use friendly URLs in the Offices sub-site.
- \* The name for each new office must be added to the Offices term set programmatically.
- \* The left navigation pane for the Offices page on the website must use



the terms in the Offices term set.

- \* When the company opens a new office, a link for each new office must display in the left navigation pane.

#### **Cities Term Set**

The Cities term set has the following requirements:

- \* The Cities term set must contain a list that contains the names of major metropolitan areas.

- \* Many of the cities that are included in the Offices term set may also appear in the Cities term set, but the term sets may not be identical.

- \* If a city is required in both term sets, it must first be added to the Offices term set before it can be added to the Cities term set.

- \* If a term is changed in the Offices term set, it must automatically change in the Cities term set.

- \* The term Dallas must have a term ID of {b6ell481-3445-413c-9da0-b15ae5d5cbd4}.

#### **Features Term Set**

You have an Excel file that contains a list of possible features for each property. The Features term set has the following requirements:

- \* The Features term set must contain the terms that describe details about each property, such as whether the building is a single family house or a condominium.

- \* The list of possible features must be programmatically imported from the Excel file into the term store in each server environment.

#### **Web Application**

The Internet Information Services (IIS) website contains a folder named \_ConfigurationFiles. The web application has the following requirements:

- \* Anonymous access must be enabled on the web application.

- \* Internet search engines must index the site.

- \* Internet search engines must not index the files in the \_ConfigurationFiles folder.

#### **Site Collections and Content**

The web application includes the following three site collections.

##### **Board Member Site Collection**

The Board Member site collection is only accessible to the board members so that they can view private company information. The Board Member site collection has the following requirements:

- \* Only board members can log in to the site collection.

- \* A page within the site collection must display a list of all the board members.

- \* The website must be located at <http://www.contoso.com/sites/board>.

##### **Internet Site Collection**

Anonymous access is enabled on the Internet site collection. The Internet site collection has the following requirements:

- \* The site collection must include a sub-site named Offices.

- \* The URL of the Offices sub-site is <http://www.contoso.com/Offices>.

- \* Each office must have its own page on the site.

- \* The pages for each office must have the same style and structure.

- \* Each office page must contain a Content Search Web Part that displays a listing of all the properties that are being sold by agents in the office.

- \* The Content Search Web Part must use a custom display template name.

- \* Real Estate Property to render search results when site visitors search for a property.

- \* The target page for terms in the Office term set must point to a page named Office.aspx that is in the Pages library of the Offices sub-site.

- \* The site must contain an About Us section that contains a Content Search

Web Part that lists the members of the board of directors for the company.

- \* Each member of the board must have a page that contains biographical information about that board member.
- \* The list of board members must be available in the Board Member site collection.
- \* Site visitors must be able to view information about individual agents, including their contact information, certifications, and picture.
- \* When agents visit the Internet site collection, the agents may add information about each of the real estate properties that they are selling.
- \* The agents must be able to tag real estate properties according to their features.
- \* Real estate agents must enter real estate property information into a web form that is used specifically for data collection.

**The web form must collect the following information:**

- \* The property address.
- \* Up to five pictures of the property.
- \* The selling price.
- \* The number of bedrooms and bathrooms.
- \* The name of the real estate agent.
- \* Tags that will further describe the property.

### **Agent Site Collection**

The Agent site collection is in the same web application and is accessible only to agents. The Agent site collection has the following requirements:

- \* The site collection must include a site that contains instructions for real estate agents that tells them how to add property information to the website.
- \* The website must be located at <http://www.contoso.com/sites/agents>.
- \* A Web Part must use the .NET client-side object model (C50M) to retrieve all of the terms from only the Features term set.

### **Page Layouts and Web Parts**

#### **Page Layouts**

You must create the following page layouts: About Us, Biography With Image, Biography No Image, and Office. The page layouts have the following requirements:

- \* The About Us page layout must include a field to which the user may add Web Parts.
- \* The Biography With Image and Biography No Image page layouts must display biographical information about the board of directors.
- \* You must create a content type named Biography. Biography With Image and Biography No Image page layouts must use the Biography content type.
- \* The Office page layout must display information for each office and must use the fields that are defined in the Elements.xml file.

#### **Web Parts**

The Agent Web Part has the following requirements:

- \* The Web Part must display information about an individual agent.
- \* The Web Part must display information that is based on query string parameters.
- \* The URL of the page that hosts the Web Part must be <http://www.contoso.com/FindAnAgent>.

The following table lists the query string parameters and the way that each parameter must be used by the Web Part.

Parameter name	Parameter description	Required
<b>agentName</b>	The agent's name. When used in conjunction with the <b>officeId</b> parameter, the <b>agentName</b> parameter is used by the Web Part to determine which agent's name to display.	Yes
<b>officeId</b>	The unique identification number of the office to which the agent belongs. When used in conjunction with the <b>agentName</b> parameter, the <b>officeId</b> is used by the Web Part to determine which agent's information to display.	Yes
<b>certs</b>	A Boolean that indicates whether or not the agent's certifications should display.	No

### Application Structure

Relevant portions of the markup and code for the solution are shown below. (Line numbers in the code segments are included for reference only and include a two-character prefix that denotes the specific file to which they belong.)

#### Elements.xml

```

EL01 <Field
  ID="{dcdfd660-0d71-47b4-89a6-9a6deba6657b}"
  Name="SiteColumn1"
  DisplayName="Site Column 1"
  Type="HTML"
  RichText="TRUE"
  RichTextMode="FullHTML"
  Group="Custom Columns"/>
EL02 <Field
  ID="{15468e57-ea01-4077-b074-d323ea98cb94}"
  Name="SiteColumn2"
  DisplayName="Site Column 2"
  Type="Note"
  RichText="TRUE"
  RichTextMode="FullHTML"
  Group="Custom Columns"/>

```

#### FeaturesTermSet.es

```

FE01 ClientContext clientContext =
  new ClientContext("http://www.contoso.com");
FE02 TaxonomySession taxonomySession =
  TaxonomySession.GetTaxonomySession(clientContext);
FE03 TermStore termStore =
  taxonomySession.GetDefaultSiteCollectionTermStore();
FE04
FE05 clientContext.ExecuteQuery();

```

#### Import.cs

```
IM01 StreamReader reader = File.OpenText("C:\\\\Import.xls");
IM02 using (SPSite site = new SPSite("http://www.contoso.com"))
IM03 {
IM04     TaxonomySession taxonomySession = new TaxonomySession(site);
IM05     TermStore termStore = taxonomySession.TermStores[0];
IM06     Group group = termStore.Groups[0];
IM07
IM08 }
```

**QUESTION 60**

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

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

**Answer: BC**

**Explanation:**

**Note:**

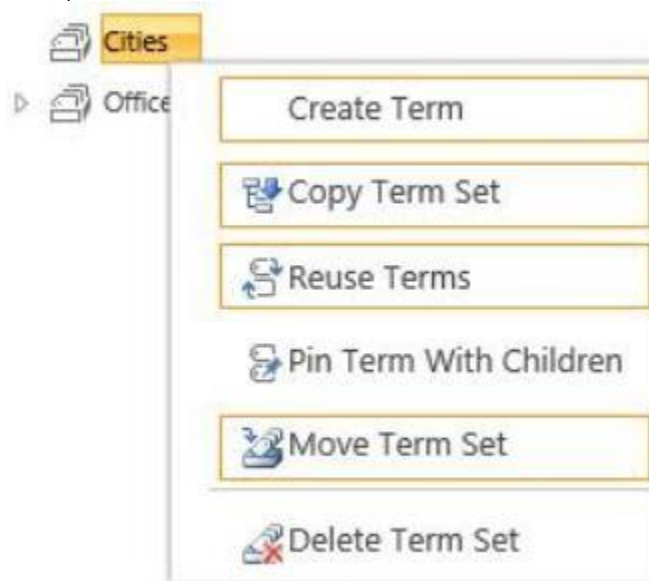
\* Master Page defines "placeholders" which can be overridden in child page.

\* Content Page of a Master Page defaults to default.aspx.

**QUESTION 61**

Hotspot Question

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



**Answer:**



### QUESTION 62

Hotspot Question

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

#### Search

Result Sources

Result Types

Query Rules

Schema

Search Settings

Searchable columns

Search and offline availability

Configuration Import

Configuration Export

#### Site Collection Administration

Recycle bin

Search Result Sources

Search Result Types

Search Query Rules

Search Schema

Search Settings

Search Configuration Import

Search Configuration Export

Site collection features

**Answer:**

#### Search

Result Sources

Result Types

Query Rules

Schema

Search Settings

Searchable columns

Search and offline availability

Configuration Import

Configuration Export

#### Site Collection Administration

Recycle bin

Search Result Sources

Search Result Types

Search Query Rules

Search Schema

Search Settings

Search Configuration Import

Search Configuration Export

Site collection features



**QUESTION 63**

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

- A. <http://www.contoso.com/Offices/Dallas.aspx>
- B. <http://www.contoso.com/Offices/Pages/Office.aspx>
- C. <http://www.contoso.com/Offices/Pages/Office.aspx?Office=Dallas>
- D. <http://www.contoso.com/Offices/Dallas>
- E. <http://www.contoso.com/Offices/Pages/Office.aspx?TermID=b6e11481-3445-413c-9da0-b15ae5d5cbd4>

**Answer: D**

**QUESTION 64**

Drag and Drop Question

You need to publish biographical information to the board member site collection. 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.)

	Answer Area
Activate the Cross-Site Publishing feature.	
Browse to the Internet site collection.	
Add the Content Search Web Part and configure it to display the biographical information.	
Browse to the Board Member site collection.	
Browse to the agents' site collection.	
Navigate to the library where the biography pages are stored and then enable the library as a catalog.	

**Answer:**

	Answer Area
Activate the Cross-Site Publishing feature.	Browse to the Internet site collection.
Browse to the Internet site collection.	Activate the Cross-Site Publishing feature.
Add the Content Search Web Part and configure it to display the biographical information.	Navigate to the library where the biography pages are stored and then enable the library as a catalog.
Browse to the Board Member site collection.	Browse to the Board Member site collection.
Browse to the agents' site collection.	Add the Content Search Web Part and configure it to display the biographical information.
Navigate to the library where the biography pages are stored and then enable the library as a catalog.	

#### QUESTION 65

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

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

**Answer: BD**

#### Explanation:

Enabling canonical link parameter filtering means SharePoint will strip all parameters from links unless you specify otherwise when reporting URLs to search engines. In other words, you can explicitly state when parameters should be included with links and what those parameters should be. If you want certain parameters to be tracked by search engines, click Filter link parameters, and then enter the parameters in the box. Be sure to separate parameters with a semicolon (for example, year;month). Steps in the SEO process:

- Configure SEO settings for the site collection.
- (B, not E) Configure sitemap settings for the site collection.
- Add and edit SEO metatags.
- D (not F) Configure SEO settings for the site collection.

#### Verify site ownership:

- Sign in to the webmaster tools portal for your desired search engine and provide requested information about your website.

- From your SharePoint Public Website home page, click Settings Small Settings gear that took the place of Site Settings > Site settings > Site Collection Administration > Search engine optimization settings.
  - Click Include these meta tags in pages.
  - Copy the meta tag provided by the webmaster tools portal, and paste it into the box.
  - Click OK.
  - From the webmaster tools portal, ask the search engine to verify your ownership of this website.
- <http://office.microsoft.com/en-001/sharepoint-help/optimize-your-website-for-search-seo-HA102900145.aspx>

**QUESTION 66**

Drag and Drop Question

You need to configure the content types and page layouts that are used to display information about the members of the board of directors. How should you configure the content types and page layouts? (To answer, drag the appropriate content types to the correct location in the answer area. Each content type 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.)

Answer Area		
	Inherits from this content type	Associated with this content type
Biography content type		
Biography With Image page layout		
Biography No Image page layout		

Biography

Biography No Image

Biography With Image

Page

Page Layout

**Answer:**

Answer Area		
	Inherits from this content type	Associated with this content type
Biography content type	Page	
Biography With Image page layout	Page Layout	Biography
Biography No Image page layout	Page Layout	Biography

Biography

Biography No Image

Biography With Image

Page

Page Layout

**QUESTION 67**

Drag and Drop Question

You need to make updates when an agent saves information about a new office. How should you complete the relevant code? (To answer, drag the appropriate code segment to the correct location or location in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

	Answer Area
<pre>NavigationTermSet navTermSet = NavigationTermSet.GetAsResolvedByWeb(termSet, site.RootWeb, "SPNavigationProvider");</pre>	<pre>public void AddOffice(string newOffice) {     SPSite site = SPContext.Current.Site;     TaxonomySession taxSession = new TaxonomySession(site);     TermStore termStore = taxSession.TermStores[0];     Group termGroup = termStore.Groups["Navigation"];     TermSet termSet = termGroup.TermSets["Offices"];      <div style="border: 1px solid #add8e6; height: 20px; margin: 5px 0;"></div>     <div style="border: 1px solid #add8e6; height: 20px; margin: 5px 0;"></div>      termStore.CommitAll(); }</pre>
<pre>SPNavigationNode newNavigationNode = new SPNavigationNode(newOffice, newOffice);</pre>	
<pre>SPNavigationNode baseNode = site.RootWeb.Navigation.Home; baseNode.AddAsLast(newNavigationNode);</pre>	
<pre>NavigationTerm navTerm = navTermSet.CreateTerm(newOffice, NavigationLinkType.FriendlyUrl, Guid.NewGuid());</pre>	
<pre>SPNavigationNodeCollection quickLaunchNodes = site.RootWeb.Navigation.QuickLaunch; quickLaunchNodes.AddAsLast(newNavigationNode);</pre>	
<pre>SPNavigationNode newNavigationNode = new SPNavigationNode(newOffice, newOffice); navTermSet.CreateTerm(newNavigationNode);</pre>	

**Answer:**

	Answer Area
<pre>NavigationTermSet navTermSet = NavigationTermSet.GetAsResolvedByWeb(termSet, site.RootWeb, "SPNavigationProvider");</pre>	<pre>public void AddOffice(string newOffice) {     SPSite site = SPContext.Current.Site;     TaxonomySession taxSession = new TaxonomySession(site);     TermStore termStore = taxSession.TermStores[0];     Group termGroup = termStore.Groups["Navigation"];     TermSet termSet = termGroup.TermSets["Offices"];      <div style="border: 1px solid #ffcc00; padding: 5px; margin: 5px 0;"> <pre>NavigationTermSet navTermSet = NavigationTermSet.GetAsResolvedByWeb(termSet, site.RootWeb, "SPNavigationProvider");</pre> </div> <div style="border: 1px solid #ffcc00; padding: 5px; margin: 5px 0;"> <pre>NavigationTerm navTerm = navTermSet.CreateTerm(newOffice, NavigationLinkType.FriendlyUrl, Guid.NewGuid());</pre> </div> <pre>termStore.CommitAll(); }</pre> </pre>
<pre>SPNavigationNode newNavigationNode = new SPNavigationNode(newOffice, newOffice);</pre>	
<pre>SPNavigationNode baseNode = site.RootWeb.Navigation.Home; baseNode.AddAsLast(newNavigationNode);</pre>	
<pre>NavigationTerm navTerm = navTermSet.CreateTerm(newOffice, NavigationLinkType.FriendlyUrl, Guid.NewGuid());</pre>	
<pre>SPNavigationNodeCollection quickLaunchNodes = site.RootWeb.Navigation.QuickLaunch; quickLaunchNodes.AddAsLast(newNavigationNode);</pre>	
<pre>SPNavigationNode newNavigationNode = new SPNavigationNode(newOffice, newOffice); navTermSet.CreateTerm(newNavigationNode);</pre>	

#### QUESTION 68

You need to add the field control to the About Us page layout. Which control should you add?

- ☐ A. `<PublishingWebControls:RichHtmlField  
    FieldName="dcdfd660-0d71-47b4-89a6-9a6deba6657b"  
    runat="server"  
/>`
- ☐ B. `<SharePointWebControls:NoteField  
    FieldName="SiteColumn2"  
    runat="server"  
/>`
- ☐ C. `<PublishingWebControls:RichHtmlField  
    FieldName="SiteColumn2"  
    runat="server"  
/>`
- ☐ D. `<PublishingWebControls:RichHtmlField  
    FieldName="15468e57-ea01-4077-b074-d323ea98cb94" runat="server"/>`

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

**Answer: A**

#### QUESTION 69

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

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

**Answer: BE**

#### QUESTION 70

You need to include the details of each property as managed metadata. Which code segment should you add at line IM07?



- ☐ A. `bool allTermsAdded = false;  
string errorMessage = string.Empty;  
ImportManager manager = termStore.GetImportManager();  
manager.ImportTermSet(group, reader, out allTermsAdded, out errorMessage);`
- ☐ B. `bool allTermsAdded = false;  
string errorMessage = string.Empty;  
ImportManager manager = taxonomySession.GetImportManager();  
manager.ImportTermSet(group, reader, out allTermsAdded, out errorMessage);`
- ☐ C. `TermSet termSet = group.TermSets["Features"];  
ImportManager manager = taxonomySession.GetImportManager();  
manager.ImportTermSet(termSet, reader);`
- ☐ D. `TermSet termSet = group.TermSets["Features"];  
ImportManager manager = termStore.GetImportManager();  
manager.ImportTermSet(termSet, reader);`

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

**Answer: A**

**Explanation:**

[https://msdn.microsoft.com/en-](https://msdn.microsoft.com/en-us/library/microsoft.sharepoint.taxonomy.importmanager.importtermset(v=office.14).aspx)

[us/library/microsoft.sharepoint.taxonomy.importmanager.importtermset\(v=office.14\).aspx](https://msdn.microsoft.com/en-us/library/microsoft.sharepoint.taxonomy.importmanager.importtermset(v=office.14).aspx)

#### QUESTION 71

You need to implement the Web Part to retrieve the terms for the required term set. Which code segment should you insert at line FE04?

- ☐ A. `clientContext.Load(termStore,  
store => store.Groups.Include(  
group => group.TermSets.Include(  
termSet => termSet.Terms.Include(  
term => term.Name)  
)  
)  
);`
- ☐ B. `clientContext.Load(termStore,  
termSet => termSet.Terms.Include(  
term => term.Name  
)  
);`
- ☐ C. `clientContext.Load(termStore,  
termSet => termSet.Terms.Include(  
term => term.Name  
).Where(termSet => termSet.Name == "Features")  
);`
- ☐ D. `clientContext.Load(termStore,  
store => store.Groups.Include(  
group => group.TermSets.Include(  
termSet => termSet.Terms.Include(  
term => term.Name)  
).Where(termSet => termSet.Name == "Features")  
)  
);`

- A. Option A  
B. Option B

- C. Option C
- D. Option D

**Answer: A**

## Case Study: 4 - Adventure Works (QUESTION 72 - QUESTION 83)

### Background

Adventure Works needs to develop a solution that tracks internal and external projects for both on-site and off-site employees. The company plans to create a project tracking site by using SharePoint.

### Business Requirements

The company has the following requirements:

- \* The solution must use data from an existing line of business (LOB) system.
- \* The solution must provide secure access to data.
- \* The solution must allow users to search for projects by department or job role.
- \* The portal for the solution must contain an overview of all the active projects.
- \* Navigation for all sites must be managed centrally.
- \* Project members must be notified when project information changes.
- \* Project leads must be able to view a list of departments and job roles.
- \* Project leads must be notified when project tasks change.
- \* Users must be able to filter project documents by file type.

### Technical Requirements

The solution must include the following components.

Component type	Name	Description
Custom List app	Admin	Allows users to create and enter project information.
Document Library app	Project Documents	Allows users to upload and download files that are related to projects.
Page	Project Information	Allows users to view project information.
Tasks app	Tracking	Allows users to create and manage project tasks.
External Content Type	Project	Allows the app to connect to external data.

### Business Connectivity Services (BCS)

- \* You must use BCS to connect to a SQL Server database to retrieve project information and display it on a Project Information Page.
- \* The Admin Custom List app must use a remote event receiver to send an email message to each team member when information is updated.
- \* The Project external content type must use the root namespace proj\_info.

### Managed Metadata Service (MMS)

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You must use MMS to ensure that team members can search and filter project information.

- \* Managed data must be grouped and controlled by department leaders. The project lead must have full control of the term store. The project leader creates groups for each department and assigns the leader of each department to the group manager role.
- \* Group managers must be able to grant Contribute permissions to the remaining team members in their department.
- \* You must create a Department term set to store team member roles and organize them by department types. The import file for the Department term set is the default for all new projects. The import file contains terms for System Architect, Programmer, Producer, and Manager. Each term is contained within two parent groups, Engineering or Production. Managers are members of the Production group only. All of the parent groups use a shared root-level term.
- \* You must create a site collection to store content that is used across multiple site collections. The site collection stores term sets for cross-site navigation and searches.
- \* The navigation site must use the URL `http://adventureworks/sites/navigation`.
- \* The publishing site must use the URL `http://adventureworks/sites/portal`.
- \* Navigation links on the top and left sides of each page must use term sets.
- \* The Document Library app named Project Documents must include a local term set for document types. The term set must contain the default terms: .docx, .png, and .jpg.
- \* You must develop a console app to print the current term sets and each root term for the app by using the following style: TermSet : name Term : name.

### **Application Structure**

Relevant segments of the app files are shown below. (Line numbers in the code segments are included for reference only and include a two-character prefix that denotes the specific file to which they belong.)

#### **DocumentLibApp.es**

```
DL53         Console.WriteLine("Group " + group.Name);
DL54         foreach( TermSet termSet in group.TermSets )
DL55         {
DL56
DL57             foreach(Term term in termSet.Terms)
DL58             {
DL59
DL60             }
DL61         }
DL62     }
DL63 }
DL64 }
DL65 }
DL66
DL67 private void TranslateFile(string culture, string input, string output,
DL68 string name)
DL69 {
DL69     var contextToken = TokenHelper.GetContextTokenFromRequest(Page.Request);
DL70     var hostWeb = Page.Request["SPHostUrl"];
DL71     using (var clientContext = TokenHelper.GetClientContextWithContextToken
DL72         (hostWeb, contextToken, Request.Url.Authority))
DL73     {
DL74
DL75         job.AddFile(input, output);
DL76         job.Name = name;
DL77
DL78
DL79
DL80
DL81         clientContext.Load(job);
DL82         clientContext.ExecuteQuery();
DL83     }
DL84 }
```

**TeamRemoteEventReceiver.es**

```
RR01 public class RemoteEventReceiver1 : IRemoteEventService
RR02 {
RR03     public SPRemoteEventResult ProcessEvent(SPRemoteEventProperties properties)
RR04     {
RR05
RR06         return new SPRemoteEventResult();
RR07     }
RR08
RR09     public void ProcessOneWayEvent(SPRemoteEventProperties properties)
RR10     {
RR11
RR12     }
RR13
RR14     public static void ListRemoteEventReceiver(SPRemoteEventProperties properties)
RR15     {
RR16         ...
RR17     }
RR18 }
```

**TodoEventReceiver.es**

```
ER01 using System;
ER02 using System.Security.Permissions;
ER03 using Microsoft.SharePoint;
ER04 using Microsoft.SharePoint.Utilities;
ER05 using Microsoft.SharePoint.Workflow;
ER06 namespace Adventureworks
ER07 {
ER08
ER09     {
ER10         public override void ItemAdded(SPItemEventProperties properties)
ER11         {
ER12             base.ItemAdded(properties);
ER13         }
ER14     }
ER15 }
```

**ImportTermSet.es**

```
IT01 termStore = Taxosession.TermStores[0];
IT02 termGroup = termStore.CreateGroup("MyGroup");
IT03 FileStream TermsFile = new FileStream(CSVFilePath, FileMode.Open, FileAccess.Read);
IT04 reader = File.OpenText(CSVFilePath);
IT05 bool allTermsAdded; string errorMessage = "";
IT06 ImportManager importManager = termStore.GetImportManager();
IT07
```

**QUESTION 72**

You need to implement the notifications for the custom list app named Admin. Which code segment should you add at line ER08?

- A. public class EventReceiver1
- B. public class EventReceiver1 : SPListEventReceiver
- C. public class EventReceiver1 : SPItemEventReceiver
- D. public class EventReceiver1 : SPEventReceiverBase

**Answer: C**

**QUESTION 73**

Drag and Drop Question

You need to implement the term set import file to enable item assignments to be filtered. How should you structure the term sets? (To answer, drag the appropriate term to the correct level in the answer area. Each term may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)



Answer Area			
	Level 1 Term	Level 2 Term	Level 3 Term
Department		Engineering	System Architect
Engineering		Engineering	Programmer
Manager	Department	Production	
Producer	Department		Manager
Production			
System Architect			

**Answer:**

Answer Area			
	Level 1 Term	Level 2 Term	Level 3 Term
Department	Department	Engineering	System Architect
Engineering	Department	Engineering	Programmer
Manager	Department	Production	Producer
Producer	Department	Production	Manager
Production			
System Architect			

**QUESTION 74**

You need to ensure that end users can access the project's external content type and model by using the provided naming specifications. Which properties in the external content-type editor must you set when you create the external content type in SharePoint Designer? (Each correct answer presents part of the solution. Choose all that apply.)

- A. Set the value of the Display Name property to Project.
- B. Set the value of the Namespace property to http://adventureworks/sites/portal.
- C. Set the value of the Namespace property to proj\_info.
- D. Set the value of the Name property to proj\_info.
- E. Set the value of the Display Name property to proj\_info.
- F. Set the value of the Name property to Project.

**Answer: CE**

**QUESTION 75**

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

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

**Answer: AC**

**QUESTION 76**

Drag and Drop Question

You need to implement the site collection for managed navigation. 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.)

	Answer Area
Create a Product Catalog.	
Add relevant terms and content types.	
Create a new Term Set.	
Start a full crawl from the Search Service Applications.	

**Answer:**

	Answer Area
Create a Product Catalog.	Create a Product Catalog.
Add relevant terms and content types.	
Create a new Term Set.	Create a new Term Set.
Start a full crawl from the Search Service Applications.	Add relevant terms and content types.

**QUESTION 77**

You need to configure a new site collection in Central Administration. You will use the site collection to manage navigation terms. What should you do?

- A. Create a site collection by using the Publishing Portal template.
- B. Create a site collection by using the Enterprise Search Center template.
- C. Create a site collection by using the Records Center template.
- D. Set the website address to <http://adventureworks.com/sites/navigation>.

**Answer: A**

**QUESTION 78**

You need to implement the remote event receiver for the Admin Custom List app. What should you do?

- A. Insert the following code segment at line RR05:  
`ListRemoteEventReceiver(properties);`
- B. Insert the following code segment at line RR05:  
`ProcessOneWayEvent(properties);`
- C. Insert the following code segment at line RR11:  
`ProcessEvent(properties);`
- D. Insert the following code segment at line RR11:  
`ListRemoteEventReceiver(properties);`

**Answer: D**

**Explanation:**

<http://msdn.microsoft.com/en-us/library/microsoft.sharepoint.client.eventreceivers.iremoteeventservice.aspx>

**QUESTION 79**

You need to configure permissions for the publishing portal in the Term Store Manager. What should you do?

- A. Add the URL <http://adventureworks.com/sites/portal> to the site collection access list.
- B. Add the URL <http://adventureworks.com/sites/portal> to the Contributors list.
- C. Add the URL <http://adventureworks.com/navigation> to the site collection access list.

D. Add the URL <http://adventureworks.com/pages/navigation.aspx> to the site collection access list.

**Answer: B**

**QUESTION 80**

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

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

**Answer: AC**

**QUESTION 81**

Drag and Drop Question

You need to configure permission roles for the team members. What should you do? (To answer, drag the appropriate role to the correct location in the answer area. Each role 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.)

Answer Area	
Contributors	Team Member Title
Group Managers	Project Leader
Term Store Administrators	Department Asset Lead
	Team Members
	Department Programming Lead

**Answer:**

Answer Area	
Contributors	
Group Managers	
Term Store Administrators	
Team Member Title	Permission Role
Project Leader	Term Store Administrators
Department Asset Lead	Group Managers
Team Members	Contributors
Department Programming Lead	Group Managers

**QUESTION 82**

You need read the import file and populate the term sets and terms. Which code segment should you insert at line IT07?

- ☐ A. `importManager.ImportTermSet(reader, termGroup, ref allTermsAdded, ref errorMessage);`
- ☐ B. `importManager.ExportTermSet(termGroup, reader, out allTermsAdded, out errorMessage);`
- ☐ C. `importManager.ImportTermSet(termGroup, reader, out allTermsAdded, out errorMessage);`
- ☐ D. `importManager.TermStore.GetTermSet(termGroup, reader, out allTermsAdded, out errorMessage);`

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

**Answer: C**

**Explanation:**

<https://msdn.microsoft.com/en-us/library/microsoft.sharepoint.client.taxonomy.termstore.gettermset.aspx>

**QUESTION 83**

You need to configure navigation for the publishing portal. What should you do? (Each correct answer presents part of the solution. Choose all that apply)

- A. Set the value of the Global Navigation option to Managed Navigation.
- B. Select the root term for navigation within the site collection.
- C. Set the value of the Global Navigation option to Structural Navigation.



- D. Select the term for navigation within the site collection.
- E. Set the Current Navigation to display the same navigation items as the parent site.
- F. Set the value of the Current Navigation option to Managed Navigation.

**Answer:** ADF

### Mix Question

#### QUESTION 84

You are moving a customized SharePoint site collection to a new farm. You attach and mount the source content database in the destination farm. You need to ensure that all customizations from the source farm are available in the destination farm. What should you do?

- A. Install all custom applications in the destination farm.
- B. Copy all custom master pages from the source site collection to the Style Library in the destination site collection.
- C. Copy all SharePoint groups and users from the source farm to the destination farm.
- D. Copy all custom master pages from the source site collection to the master page gallery in the destination site collection.

**Answer:** A

#### QUESTION 85

An organization upgrades a SharePoint 2010 environment custom applications in the destination to SharePoint 2013. A site collection is running in SharePoint 2010 compatibility mode. You must verify that the following features will function correctly when the site collection is upgraded to SharePoint 2013 native mode:

- List views
- Custom web parts
- Content query web parts
- Subsites

You need to ensure that you can perform verification testing without impacting the current user experience. What should you do?

- A. Upgrade the site collection to SharePoint 2013.
- B. Perform a database attach upgrade.
- C. Enable the Visual Upgrade option for the site collection.
- D. Generate an upgrade evaluation site collection.

**Answer:** A

#### QUESTION 86

You need to choose a backup solution. Which solution should you choose?

- A. SharePoint backup from the Central Administration console
- B. SQL Server backup by using SQL Server Management Studio
- C. Windows Server Backup in Windows Server 2012
- D. SharePoint backup by using Data Protection Manager (DPM)

**Answer:** A

#### QUESTION 87

You are configuring a SharePoint farm. You have the following requirements:

- Implement an enterprise resource pool.

- Enable tasks to be assigned to users.
- Implement a resource breakdown structure.

You need to implement a solution that meets the requirements. What should you do?

- A. Create a SharePoint team site.
- B. Provision a Microsoft Project web app.
- C. Create a SharePoint task list.
- D. Import a Microsoft Excel spreadsheet as a custom list.

**Answer: B**

#### QUESTION 88

You are implementing a claims-based authentication solution for a SharePoint farm in an Active Directory Domain Services domain. You install and configure Active Directory Federation Services (AD FS). You need to ensure that all web applications in the farm support SAML-based claims authentication. What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

- A. Configure AD FS with the web application as a relying party.
- B. Configure web applications to use forms-based authentication and AD FS as the trusted identity provider.
- C. Configure web applications to use claims-based authentication and AD FS as the trusted identity provider.
- D. Configure web applications to use classic mode authentication and AD FS as the trusted identity provider.
- E. Configure SharePoint to trust AD FS as an identity provider.

**Answer: ACE**

#### QUESTION 89

Drag and Drop Question

You create a SharePoint app that displays employee information in a SharePoint list. The app uses Business Connectivity Services (BCS) to connect to a custom employee information database. You have a Business Data Connectivity (BDC) model named Employee. You need to implement the GetEmployee method. You have the following code:

```
public partial class Target 1
{
    private const string cs = @"Data Source=
        contoso\sqlserver;Initial Catalog=Employee;Integrated Security=True";
    public static Employee Target 2(int employeeID)
    {
        using Target 3 db = new Target 4(cs)
        {
            Employee employee = (from e in db.Employees
                                where e.EmployeeID == employeeID
                                ...
                                ).FirstOrDefault();
            return employee;
        };
    }
};
```

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 segment 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.)

Code segments	Answer Area
Employee	Target 1: code segment
GetEmployee	Target 2: code segment
GetEmployeeInfomation	Target 3: code segment
CustomDataContext	Target 4: code segment
EmployeeDataContext	
Employee : DataContext	

**Answer:**

Code segments	Answer Area
Employee	Target 1: Employee
GetEmployee	Target 2: GetEmployee
GetEmployeeInfomation	Target 3: EmployeeDataContext
CustomDataContext	Target 4: EmployeeDataContext
EmployeeDataContext	
Employee : DataContext	

**QUESTION 90**

Hotspot Question

You implement eDiscovery in SharePoint to access Exchange Online mailbox data. You find malware and spam in items within the eDiscovery hold. You think that your company's anti-malware software is not working because of incorrect permissions. You need to ensure that software is configured correctly. On The Exchange admin center page, which option should you select? (To answer, select the appropriate option in the answer area.)

**Answer Area**

Exchange admin center

recipients

permissions

compliance management

organization

protection

mail flow

mobile

public folders

**Answer:**

**Answer Area**

Exchange admin center

recipients

permissions

compliance management

organization

protection

mail flow

mobile

public folders

**QUESTION 91**

**Drag and Drop Question**

You develop a SharePoint app that uses the client-side object model (CSOM) to run search queries. You need to implement a method that searches for the term SharePoint. You have the following code:

```
protected void PerformSearchQuery (object sender, EventArgs e)
{
    ...
    Target 1 query =
        new Target 2 (clientContext);
    query.QueryText = "SharePoint";
    Target 3 search = new Target 4 (clientContext);
    Target 5 <ResultTableCollection> results =
        search.ExecuteQuery(query);
    clientContext.ExecuteQuery();
}
```

Which code segments should you include in Target 1, Target 2, Target 3, Target 4 and Target 5 to complete the code? (To answer, drag the appropriate code segment 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.)

Code segments	Answer Area
ResultRows	Target 1: <input type="text" value="code segment"/>
Query	Target 2: <input type="text" value="code segment"/>
ClientResult	Target 3: <input type="text" value="code segment"/>
KeywordQuery	Target 4: <input type="text" value="code segment"/>
SearchExecutor	Target 5: <input type="text" value="code segment"/>

**Answer:**



Code segments	Answer Area
ResultRows	Target 1: KeywordQuery
Query	Target 2: KeywordQuery
ClientResult	Target 3: SearchExecutor
KeywordQuery	Target 4: SearchExecutor
SearchExecutor	Target 5: ClientResult

### QUESTION 92

Drag and Drop Question

You have a SharePoint farm that contains a server named HQ-SPApp1. An app on the server allows users to search for news articles. You access a list of desired keywords on the server from the location c:\refiners\phase1\keywords.csv. A custom dictionary is already in use. You need to create a custom processing extension to promote any news articles with specific case-insensitive keywords. You have the following script:

```
$searchApp = Get-SPEnterpriseSearchServiceApplication;
Import-SPEnterpriseSearchCustomExtractionDictionary
-SearchApplication $searchApp
-Filename Target 1
-DictionaryName Target 2
```

Which values should you include in Target 1 and Target 2 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.)

Values	Answer Area
C:\refiners\phase1\keywords.csv	Target 1: Value
\\HQ-SPApp1\c\$\refiners\phase1\keywords.csv	Target 2: Value
Microsoft.UserDictionaries.EntityExtraction.Custom.Word.1;	
Microsoft.UserDictionaries.EntityExtraction.Custom.Word.2;	
Microsoft.UserDictionaries.EntityExtraction.Custom.WordPart.2;	

**Answer:**

Values	Answer Area
C:\refiners\phase1\keywords.csv	Target 1: <input type="text" value="\\HQ-SPApp1\c\$\refiners\phase1\keywords.csv"/>
\\HQ-SPApp1\c\$\refiners\phase1\keywords.csv	Target 2: <input type="text" value="Microsoft.UserDictionaries.EntityExtraction.Custom.Word.2;"/>
Microsoft.UserDictionaries.EntityExtraction.Custom.Word.1;	
Microsoft.UserDictionaries.EntityExtraction.Custom.Word.2;	
Microsoft.UserDictionaries.EntityExtraction.Custom.WordPart.2;	

### QUESTION 93

#### Hotspot Question

You develop a Client Web Part for a SharePoint app. The Web Part retrieves weather data from an external web service by using Asynchronous JavaScript (AJAX). Users report that the pages that use the Client Web Part load slowly. You think that the script files that the page is using are causing the pages to load slowly. You need ensure that the script files load as quickly as possible. You have the following code:

```
<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <title></title>
    <script type="text/javascript"
      src=Target 1>
    </script>
    <script
      type=Target 2>
    </script>
  </head>
  <body>
  </body>
</html>
```

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

#### Answer Area

Target 1:

Target 2:

**Answer:**



Answer Area

Target 1:

(get-date).minutes.subtract(90)  
(get-date).minutes.add(-90)  
(get-date).addminutes(-90)  
(current-date).addminutes(-90)

Target 2:

\$\_tokenid  
\$.correlationtokenid  
\$.correlation  
\$.correlationid

Target 3:

==  
-eq  
-equals  
:

**QUESTION 95**

Drag and Drop Question

Users report that an app is slow to load. You navigate to the start page for the app in Internet Explorer and then open the Developer Tools window. You need to debug the JavaScript code. 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.)

Actions	Answer Area
Select App.js in the list of files to debug.	
Insert a breakpoint on the <b>ClientContext.Load</b> method.	
Insert a breakpoint in the JavaScript code for each method.	
Start debugging the app.	
Select the Script tab.	
Expand the collection node in the Locals pane.	

**Answer:**

Actions	Answer Area
Select App.js in the list of files to debug.	Select App.js in the list of files to debug.
Insert a breakpoint on the <b>ClientContext.Load</b> method.	Select the Script tab.
Insert a breakpoint in the JavaScript code for each method.	Expand the collection node in the Locals pane.
Start debugging the app.	Insert a breakpoint on the <b>ClientContext.Load</b> method.
Select the Script tab.	Start debugging the app.
Expand the collection node in the Locals pane.	

### QUESTION 96

Drag and Drop Question

You develop a SharePoint app that connects to external content by using Business Connectivity Services (BCS). You need to ensure that the app returns no more than 500 items at one time. 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.)

Actions	Answer Area
In the Business Data Connectivity (BDC) model, specify filters that are used by the subscription file.	
Define a Limit filter.	
Create a new view with an item limit filter.	
Create a new subscription for the external content.	
Define a Throttle filter.	

**Answer:**

Actions	Answer Area
In the Business Data Connectivity (BDC) model, specify filters that are used by the subscription file.	Define a Limit filter.
Define a Limit filter.	Create a new subscription for the external content.
Create a new view with an item limit filter.	In the Business Data Connectivity (BDC) model, specify filters that are used by the subscription file.
Create a new subscription for the external content.	
Define a Throttle filter.	

### QUESTION 97

You develop a Web Part that includes the following code segment: (Line numbers are included for reference only.)



```
01 using Microsoft.SharePoint.Client;
02 using Microsoft.SharePoint.Client.UserProfiles;
03 using System;
04 namespace GetProfileProperties
05 {
06     class Program
07     {
08         static void Main(string[] args)
09         {
10             const string serverUrl = "http://contoso.com/";
11             ClientContext clientContext = new ClientContext(serverUrl);
12             PeopleManager peopleManager = new PeopleManager(clientContext);
13
14             clientContext.Load(personProperties,
15                               p => p.AccountName, p => p.UserProfileProperties);
16             clientContext.ExecuteQuery();
17             foreach (var property in personProperties.UserProfileProperties)
18             {
19                 Console.WriteLine(string.Format("{0}: {1}",
20                                                 property.Key.ToString(), property.Value.ToString()));
21             }
22             Console.ReadLine();
23         }
24     }
25 }
```

You log on to a SharePoint site with the user name Contoso\THartono. You need to display account details for the currently logged in user. Which code segment should you insert at line 13?

- ☐ A. `PersonProperties personProperties = peopleManager.GetUserData("CONTOSO\\THartono");`
- ☐ B. `PersonProperties personProperties = peopleManager.GetMyProperties();`
- ☐ C. `PersonProperties personProperties = peopleManager.GetUserProfilePropertyFor("CONTOSO\\THartono");`
- ☐ D. `PersonProperties personProperties = peopleManager.GetProperties("CONTOSO\\THartono");`

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

**Answer: B**

#### QUESTION 98

You create a site collection for Contoso, Ltd. by using the Community Site template. My Sites are configured. Users access the community site and view newsfeeds by clicking the Newsfeed link on the community site. You create a custom Web Part that displays the latest newsfeed posts for the user that is logged in. The Web Part must use Representational State Transfer (REST) to retrieve items from the Newsfeed. You need to define the correct uniform resource locator (URL) to access items. Which URL should you use?

- A. `http://my.contoso.com/_api/search`  
B. `http://my.contoso.com/_api/SP.UserProfiles.PeopleManager`  
C. `http://community.contoso.com/_api/web/lists/microfeed`  
D. `http://my.contoso.com/_api/social.feed/my/Feed`

**Answer: D**

**Explanation:**

The my resource represents the current user. When used inline in the endpoint URI, it sets the context of the request to the current user. For example, [http://contoso.com/\\_api/social.feed/my/news](http://contoso.com/_api/social.feed/my/news) gets the newsfeed for the current user.

**Reference: Social feed REST API reference for SharePoint 2013**

**QUESTION 99**

You create a publishing site collection and configure it for anonymous use. The Machine Translation Service (MTS) application is configured and available. New pages in the site collection must be translated immediately to other languages by using the SharePoint Variations feature and the MTS application. You need to configure the MTS application to perform translations synchronously. Which code segment should you use?

- ☐ A. 

```
TranslationJob job = new TranslationJob(spServiceContext,
    CultureInfo.GetCultureInfo(culture));
```
- ☐ B. 

```
SyncTranslator job = new SyncTranslator(spServiceContext,
    CultureInfo.GetCultureInfo(culture));
```
- ☐ C. 

```
TranslationItemInfo itemInfo = job.Translate(inputByte,
    out outputByte, fileFormat);
```
- ☐ D. 

```
asyncJob.set outputSaveBehavior(SP.Translation.SaveBehavior.
    alwaysOverwrite);
```

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

**Answer: B**

**Explanation:**

<https://msdn.microsoft.com/en-us/library/office/jj163145.aspx>

**QUESTION 100**

Drag and Drop Question

You have a site collection, and the Publishing Infrastructure feature is activated. You need to use SharePoint Designer to create a page layout named Fancy Layout that supports HTML markup and styling. 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.)

Actions	Answer Area
<p>Edit Fancy Layout and style as required. Add a field control. Set the value of the FieldName attribute to <b>Rich_x0020_HTML_x0020_Content</b></p>	
<p>Create a new site column named Rich HTML Content by using the multi-line text type.</p>	
<p>Create a new content type named Fancy Page that inherits from the Page content type. Add the Rich HTML Content site column.</p>	
<p>Create a new page layout named Fancy Layout and associate it with the Fancy Page content type.</p>	
<p>Create a new site column named Rich HTML Content by using the HTML publishing type.</p>	

**Answer:**

Actions	Answer Area
<p>Edit Fancy Layout and style as required. Add a field control. Set the value of the FieldName attribute to <b>Rich_x0020_HTML_x0020_Content</b></p>	<p>Create a new site column named Rich HTML Content by using the HTML publishing type.</p>
<p>Create a new site column named Rich HTML Content by using the multi-line text type.</p>	<p>Create a new content type named Fancy Page that inherits from the Page content type. Add the Rich HTML Content site column.</p>
<p>Create a new content type named Fancy Page that inherits from the Page content type. Add the Rich HTML Content site column.</p>	<p>Create a new page layout named Fancy Layout and associate it with the Fancy Page content type.</p>
<p>Create a new page layout named Fancy Layout and associate it with the Fancy Page content type.</p>	<p>Edit Fancy Layout and style as required. Add a field control. Set the value of the FieldName attribute to <b>Rich_x0020_HTML_x0020_Content</b></p>
<p>Create a new site column named Rich HTML Content by using the HTML publishing type.</p>	

**QUESTION 101**

**Drag and Drop Question**

You develop a provider-hosted SharePoint app that retrieves and displays news headlines from an external site named News. The site contains lists of news headlines from many news sources. You need to create a Representational State Transfer (REST) endpoint URL in the app to retrieve hourly headlines from the site for a specific news source. You have the following code:

```
string url = "http://www.contoso.com/ Target 1
/_api/web/ Target 2
/getbytitle('"+ cityName + "')/ Target 3 ";
var listRequest = (HttpWebRequest)HttpWebRequest.Create(url);
listRequest.Method = "Target 4";
```

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 term to the correct targets in the answer area. Each term may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Terms	Answer Area
GET	Target 1: term
items	Target 2: term
lists	Target 3: term
POST	Target 4: term
site=news	
news	

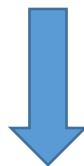
**Answer:**

Terms	Answer Area
GET	Target 1: news
items	Target 2: lists
lists	Target 3: items
POST	Target 4: GET
site=news	
news	

**QUESTION 102**

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