Microsoft MCSD Certification 70-488 Exam

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➢ **Exam Code: 70-488**

➢ **Exam Name: Developing Microsoft SharePoint Server 2013 Core Solutions**

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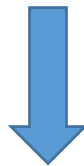
QUESTION 1
Drag and Drop Questions
You develop a reusable workflow on a development site by using SharePoint Designer. The workflow must be made available to a test site on a different SharePoint environment. You need to deploy and start the workflow on the test site by using Microsoft Visual Studio 2012. Which three actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)

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

Answer:

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

QUESTION 2
Hotspot Question
A company's IT department implements a Help Desk Ticketing system that involves workflow development by using SharePoint Designer and InfoPath. The Help Desk Ticket workflow involves multiple steps and tasks that have serial approvals of multiple users and groups with custom task email messages. The Approver accidently rejects a workflow step, and the workflow has stopped. The Approver then corrects the step. You need to continue the workflow to reflect the updated approval. Which activity should you use? (To answer, select the appropriate action from the list of actions in the answer area.)

Set Workflow Status
Set Workflow Variable
List Actions

    Check In Item
    Check Out Item
    Copy Document
    Create List Item
    Delete Item
    Discard Check Out Item
    Set Field in Current Item
    Translate Document
    Update List Item
    Wait for Event in List Item
    Wait for Field Change in Current Item

Task Actions

    Assign a task
    Start a task process

Answer:

Set Workflow Status
Set Workflow Variable
List Actions

    Check In Item
    Check Out Item
    Copy Document
    Create List Item
    Delete Item
    Discard Check Out Item
    Set Field in Current Item
    Translate Document
    Update List Item
    Wait for Event in List Item
    Wait for Field Change in Current Item

Task Actions

    Assign a task
    Start a task process

QUESTION 3
You develop a SharePoint app to create an approval workflow for expense reports. The app must collect user input before starting the workflow. You need to use ASP.NET forms in the workflow. Which form type should you use?

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

Answer: C
Explanation:
When you use "Collect data from user" action, a task is created.

QUESTION 4

You plan to create a workflow design by using Microsoft Visio 2013 and then import the design into SharePoint Designer 2013. You need to ensure that you have repetition capability. Which shape should you use?

A. Stage
B. Assign a Task
C. Step
D. Loop

Answer: D
Explanation:
http://msdn.microsoft.com/en-us/library/jj163272
- Stage shapes: A stage can contain any number of shapes and may include branching. However, there can be only one path into a stage (and a step) and one path out. All actions in the workflow must be contained by a stage.
- Loop shapes: Loops are a series of connected shapes that will execute as a loop, returning from the last shape in the series to the first, until a condition is satisfied.
- Step shapes: Steps represent a grouped series of sequential actions. Steps must be contained by a stage. A step shape must also have an Enter and Exit shape to define the paths in and out of the shape.

QUESTION 5

You plan to create a SharePoint Business Process Automation (BPA) project. You need to process items for approval with the least amount of developer effort. Which tool should you use?

A. Remote Event Receiver
B. Out-of-the-box workflow
C. SharePoint Designer workflow
D. Work Item Timer Job

Answer: B
Explanation:
Workflows in SharePoint 2013 allow you to model and automate business processes. These business processes can be as simple as a document approval process with a single approver (shown in example below), as complex as customer-facing product catalog using web service calls and database support, or as formidable as virtually any structured business process, full of conditions, loops, user inputs, tasks, and custom actions.
Example:
Simple SharePoint workflow
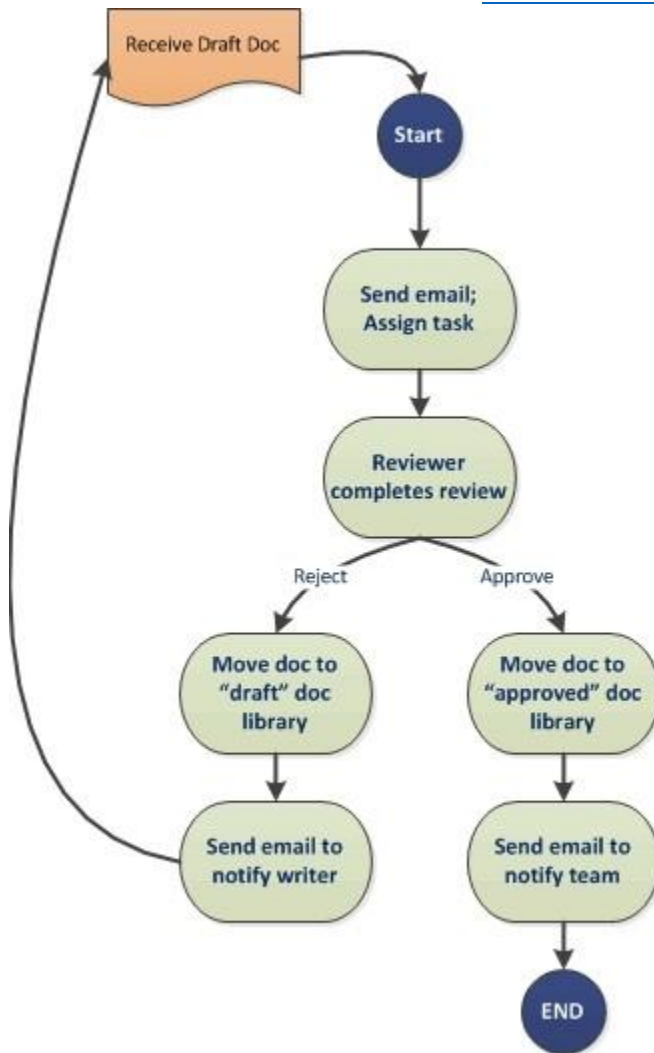
QUESTION 6
Contoso uses a SharePoint site that contains subsites. Each subsite represents different projects.
Each project site is based on a team site template and stores information and documents. Contoso
has five teams: Manufacturing, Sales, Administration, Marketing, and IT. You must create a
different look and feel for each team site such that any visitor to the site can identify the team by
looking at the colors, fonts, and background image of the site. You need to create a different look
and feel for each team. What should you do? (Each correct answer presents part of the complete
solution. Choose all that apply.)

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

F.   Create a new font XML schema with a font specification for each team.

Answer: DEF
Explanation:
You don't need to edit content types to create a customized look, you also need to apply the customized look that you created in composed looks.

QUESTION 7
Drag and Drop Questions
You need to create a workflow custom activity to use in a custom action in SharePoint by using Microsoft Visual Studio 2012. Which five actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)

	Answer Area
Create a new custom action by using SharePoint Designer.	
Activate the feature.	
Deploy the SharePoint solution package (.wsp) file.	
Package the custom activity as a SharePoint solution package (.wsp) file.	
Add a new item named **Workflow Custom Activity** to the project.	
Add new actions to the design surface and configure and connect the new actions as needed.	
Package the custom activity as a template (.stp) file.	

Answer:

	Answer Area
Create a new custom action by using SharePoint Designer.	Add a new item named **Workflow Custom Activity** to the project.
	Add new actions to the design surface and configure and connect the new actions as needed.
	Package the custom activity as a SharePoint solution package (.wsp) file.
	Deploy the SharePoint solution package (.wsp) file.
	Activate the feature.
Package the custom activity as a template (.stp) file.	

QUESTION 8
A user deploys a sandbox solution. The user cannot activate the solution. You need to ensure that the user can activate the solution. What should you do? (Each correct answer presents a complete solution. Choose all that apply.)

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

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

QUESTION 9
A company uses SharePoint for internal collaboration. SharePoint is deployed on a server farm with a single front-end server, a single application server, and a dedicated database server. You review existing Web Parts that read from and write to SharePoint lists. You find the following code

in one of the utility classes and notice memory leaks in the method.

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

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

A. Add a finally statement and include site.Dispose().
B. Add site.Dispose() to the catch statement.
C. Add a finally statement and include siteCoIiection.Dispose().
D. Add siteCollection.Dispose() to the catch statement.

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

QUESTION 10
Drag and Drop Questions
You troubleshoot the sandbox solutions that your team builds. You need to redeploy a sandbox solution. You also need to identify which process must be debugged. Where should you redeploy the solution, and which process should you debug? (To answer, drag the appropriate statements to the correct location or locations in the answer area. Each statement may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

	Answer Area
Farm	
W3wp.exe	Process to debug [ ]
Solution Gallery	Location where the solution is deployed [ ]
Central Administration	
SPUCWorkerProcess.exe	

Answer:

	Answer Area		
Farm			
W3wp.exe	Process to debug		SPUCWorkerProcess.exe	
Solution Gallery	Location where the solution is deployed		Solution Gallery	
Central Administration			
SPUCWorkerProcess.exe			

QUESTION 11
Drag and Drop Questions
You add a site column for an Enterprise Content Management (ECM) project by using the Site Column Designer in Visual Studio 2012. What will the designer-generated XML look like? (To answer, drag the appropriate XML elements to the correct location or locations in the answer area. Each XML element may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Answer Area

ContentTypeColumn

Elements

Field

ContentType

Type

```
<?xml version="1.0" encoding="utf-8"?>
<          >
xmlns="http://schemas.microsoft.com/sharepoint/">
<          
ID="{9a904d11-b76d-4dba-a772-67b2383dd86f}"
Name="SiteColumnB"
DisplayName="Site Column B"
          ="Text"
Required="FALSE"
Group="mySiteColumns">
</          >
</          >
```

Answer:

Answer Area

ContentTypeColumn

Elements

Field

ContentType

Type

```xml
<?xml version="1.0" encoding="utf-8"?>
< Elements
xmlns="http://schemas.microsoft.com/sharepoint/">
  < Field
    ID="{9a904d11-b76d-4dba-a772-67b2383dd86f}"
    Name="SiteColumnB"
    DisplayName="Site Column B"
    Type ="Text"
    Required="FALSE"
    Group="mySiteColumns">
  </ Field >
</ Elements >
```

QUESTION 12
Hotspot Question
You have a SharePoint site with one site collection and several subwebs. You develop a feature that installs an event receiver on a list. The event receiver must send a notification by email when information is modified. Not all subwebs require this functionality. You need to set the feature scope. From the Add New Feature dialog window, which scope should you use? (To answer, select the appropriate scope in the answer area.)

Design   Manifest

Title: SharePointProject1234 Feature2

Description:

Scope: ▼

Items in the Solu Farm
                 Site
                 Web
                 WebApplication

Answer:

Design | Manifest

Title: SharePointProject1234 Feature2

Description:

Scope: [▼]
Farm
Items in the Solu Site
Web
WebApplication

QUESTION 13
Drag and Drop Questions
Adventure Works uses SharePoint for managing project-related documents, information sharing, and tasks management. You develop a SharePoint-hosted app named TasksViewer and deploy it to the Corporate Catalog Site. This app is used only by the Project Management Office (PMO) group. Only users in the PMO group have permission to view and add this app to various project sites. The Adventure Works IT department creates a security group in Active Directory for the PMO. Currently all of the apps are visible to the Everyone group. You need to ensure that only users in the PMO group can see the app. Which five actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)

Answer Area

Remove the Everyone group from the permissions and then add the PMO group with Read permission.

From Central Administration, select the **Apps** link and then open the Corporate Catalog site.

From Quick Launch, select the **Apps for SharePoint** link.

From Quick Launch, select the **Apps for Office** link.

Open the context menu, select the **Ellipsis** button, select the **Shared With** link, and then select the **Advanced** link.

Select the **Stop Inheriting Permissions** button.

Answer:

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	Answer Area
Remove the Everyone group from the permissions and then add the PMO group with Read permission.	From Central Administration, select the **Apps** link and then open the Corporate Catalog site.
From Central Administration, select the **Apps** link and then open the Corporate Catalog site.	From Quick Launch, select the **Apps for SharePoint** link.
From Quick Launch, select the **Apps for SharePoint** link.	Open the context menu, select the **Ellipsis** button, select the **Shared With** link, and then select the **Advanced** link.
From Quick Launch, select the **Apps for Office** link.	Select the **Stop Inheriting Permissions** button.
Open the context menu, select the **Ellipsis** button, select the **Shared With** link, and then select the **Advanced** link.	
Select the **Stop Inheriting Permissions** button.	Remove the Everyone group from the permissions and then add the PMO group with Read permission.

QUESTION 14
Drag and Drop Question
You create an Enterprise Content Management (ECM) project. You write .NET client-side object model (CSOM) code to create a navigation term set in an existing term store to use in a taxonomy-based navigation. You need to complete the code to get a reference to the term store. You have the following code.

```
int lcid = Thread.CurrentThread.CurrentCulture.LCID;
ClientContext context = new ClientContext(Target 1);
TaxonomySession session = Target 2;
context.Load(Target 3);
context.ExecuteQuery();
TermStore store = session.TermStores.FirstOrDefault();
if (store != null)
{
    foreach (TermSet ts in store.Target 4("Navigation",lcid))
    {
        ...
    }
}
```

Which code segment 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.)

Answer:

QUESTION 15
Drag and Drop Questions
A company uses SharePoint and Microsoft Dynamics CRM for collaboration and customer relationship management. The company uses Active Directory Domain Services (AD DS) for identity management. SharePoint and Microsoft Dynamics CRM are configured to use claims-based authentication. The company wants to authorize user access to SharePoint sites by using roles defined in Microsoft Dynamics CRM. You create a custom claims provider. The provider adds a claim to the claim token for each role a user has in Microsoft Dynamics CRM. The provider also allows a site administrator to find and select roles from Microsoft Dynamics CRM to authorize user access. The custom claims provider must be created as a class library project to meet the unit testing requirements of the company. The custom claims provider project is complete and ready to be packaged for deployment. You need to package and deploy the custom claims provider. What should you do? (To answer, drag the appropriate actions to the correct location or locations in the answer area. Each action may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Create a deployment project.

Create an empty SharePoint project as a farm solution.

Add a feature to the SharePoint project and set the feature scope to **Web**.

Add a feature to the SharePoint project, set the feature scope to **Farm**, and then specify the **ReceiverAssembly** and the **ReceiverClass** attributes in the Feature.xml file.

Add a class library project to the SharePoint project, and add code to implement claims.

In Solution Explorer, right-click the SharePoint project, choose **Add Reference**, and then select the signed assembly of the claims provider project.

In the SharePoint project inside **Solution Explorer**, double-click the **Package.package** node, add the assembly, and then set the Deployment Target as **GlobalAssemblyCache**.

In the SharePoint management shell, run the Windows PowerShell cmdlet **Add-SPSolution** and then run the Windows PowerShell cmdlet **Install-SPSolution** with the -GACDeployment parameter.

Right-click the SharePoint project in Solution Explorer, choose **Package**, and then copy the .wsp file to the SharePoint server.

Right-click the SharePoint project in Solution Explorer, choose **Package**, and then copy the .wsp file to the SharePoint Solutions Gallery on the root site collection.

Answer Area

Get Assembly	
Create Project	
Specify Event Receiver Properties	
Add Assembly to SharePoint Project	
Generate Solution	
Deploy Solution	

Answer:

Create a deployment project.

Create an empty SharePoint project as a farm solution.

Add a feature to the SharePoint project and set the feature scope to **Web**.

Add a feature to the SharePoint project, set the feature scope to **Farm**, and then specify the **ReceiverAssembly** and the **ReceiverClass** attributes in the Feature.xml file.

Add a class library project to the SharePoint project, and add code to implement claims.

In Solution Explorer, right-click the SharePoint project, choose **Add Reference**, and then select the signed assembly of the claims provider project.

In the SharePoint project inside **Solution Explorer**, double-click the **Package.package** node, add the assembly, and then set the Deployment Target as **GlobalAssemblyCache**.

In the SharePoint management shell, run the Windows PowerShell cmdlet **Add-SPSolution** and then run the Windows PowerShell cmdlet **Install-SPSolution** with the -**GACDeployment** parameter.

Right-click the SharePoint project in Solution Explorer, choose **Package**, and then copy the .wsp file to the SharePoint server.

Right-click the SharePoint project in Solution Explorer, choose **Package**, and then copy the .wsp file to the SharePoint Solutions Gallery on the root site collection.

Answer Area

Get Assembly	In Solution Explorer, right-click the SharePoint project, choose **Add Reference**, and then select the signed assembly of the claims provider project.
Create Project	Create an empty SharePoint project as a farm solution.
Specify Event Receiver Properties	Add a feature to the SharePoint project, set the feature scope to **Farm**, and then specify the **ReceiverAssembly** and the **ReceiverClass** attributes in the Feature.xml file.
Add Assembly to SharePoint Project	In the SharePoint management shell, run the Windows PowerShell cmdlet **Add-SPSolution** and then run the Windows PowerShell cmdlet **Install-SPSolution** with the -**GACDeployment** parameter.
Generate Solution	Right-click the SharePoint project in Solution Explorer, choose **Package**, and then copy the .wsp file to the SharePoint Solutions Gallery on the root site collection.
Deploy Solution	Right-click the SharePoint project in Solution Explorer, choose **Package**, and then copy the .wsp file to the SharePoint server.

QUESTION 16
Adventure Works uses SharePoint to store product and order information. Product managers visit the Products list to see the status of each product. They request a feature that will allow them to easily see the recent and old product orders without opening the Products list. The products orders page is located at /sitepages/productorders.aspx, and the product order history page is located at /sitespages/productordershistory.aspx. Both pages require a query string parameter named ProductID. You need to add custom actions to the Products list by using the least amount of administrative effort. What should you do?

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

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

Note:
When you are creating an app for SharePoint, custom actions let you interact with the lists and the ribbon in the host web. A custom action deploys to the host web when end users install your app. Custom actions can open a remote webpage and pass information through the query string. There are two types of custom actions available for apps: Ribbon and Menu Item custom actions. But on the exam I had another answer: In SharePoint Designer on a List dashboard create a custom action and use Navigate to URL option. This seems like a good choice because it allows us to add ProductID at the end.

QUESTION 17
Adventure Works uses a SharePoint publishing site to host their public-facing website at http://www.adventureworks.com. The website gives external users the ability to register and sign in to the site to buy Adventure Works products. You notice that publicly registered users see the SharePoint ribbon. You need to ensure that the SharePoint ribbon is available only to content authors and administrators. What should you do?

A. In the SharePoint project, create a User Control and add the following code segment to hide the ribbon:

```
protected void Page Load(object sender, EventArgs e)
{
  if (UserHasPermissions(SPContext.Current.Web.CurrentUser))
  {
    SPRibbon.GetCurrent(this.Page).CommandUIVisible = true;
  }
  else
  {
    SPRibbon.GetCurrent(this.Page).CommandUIVisible = false;
  }
}
private bool UserHasPermissions(SPUser sPUser)
```

Then place the control in the master page.

B. Open the current site master page in SharePoint Designer, place the SharePoint:SPSecurityTrimmedControl control around the div tag with the s4-ribbonrow ID. Set the PermissionsString to **ManageSubWeb**.

C. Open the current site master page in SharePoint Designer, find a div tag with the s4-ribbonrow ID, and then set the style attribute to **display:none**.

D. In the SharePoint project, create a User Control and add the following code segment to hide the ribbon:

```
protected void Page_Load(object sender, EventArgs e)
{
  if (UserHasPermissions(SPContext.Current.Web.CurrentUser))
  {
    SPContext.Current.Site.CommandUIVisible = true;
  }
  else
  {
    SPContext.Current.Site.CommandUIVisible = false;
  }
}
private bool UserHasPermissions(SPUser sPUser)
```

Then place the control in the master page.

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

Answer: A
Explanation:
Reference: SharePoint, Hide the Ribbon from Anonymous Users
http://www.topsharepoint.com/hide-the-ribbon-from-anonymous-users

QUESTION 18
Drag and Drop Questions
You have an app named TaskManager published at http://sharepoint.contoso.com/apps. You need to remove the app and ensure that users will no longer be able to use the app by using Windows PowerShell cmdlets. What should you do? (To answer, drag the appropriate code segments to the correct location or locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Answer Area

Uninstall-SPAppInstance -Identity $instance

Disable-SPFeature –Identity $instance

Delete-SPAppInstance -Identity $instance

Remove-SPServiceApplication $instance

Get-SPWebApplication

Get-SPAppInstance -Web

$instance =

http://sharepoint.contoso.com/apps |
where {$_.Title -eq 'TaskManager'}

Answer:

Answer Area

Uninstall-SPAppInstance -Identity $instance

Disable-SPFeature –Identity $instance

Delete-SPAppInstance -Identity $instance

Remove-SPServiceApplication $instance

Get-SPWebApplication

Get-SPAppInstance -Web

$instance =

Get-SPAppInstance -Web

http://sharepoint.contoso.com/apps |
where {$_.Title -eq 'TaskManager'}

Uninstall-SPAppInstance -Identity $instance

QUESTION 19
Drag and Drop Questions
You create SharePoint apps for multiple clients. Each client has a unique environment with specific requirements. You need to choose the appropriate hosting location for each app. What should you do? (To answer, drag the appropriate hosting options to the correct description in the answer area. Each hosting option may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Answer Area

Hosting Option	Description
Autohosted	
Provider-hosted	App needs to be written by using HTML, JavaScript, and PHP that accesses a MySQL database.
SharePoint-hosted	Load balancing, multi-tenancy, and maintenance will be handled by Windows Azure.
	App will be written by using HTML, JavaScript, and Web Parts.
	App will run on a third-party web hosting service with an ASP.NET platform.

Answer:

Answer Area	

Hosting Option	Description
Provider-hosted	App needs to be written by using HTML, JavaScript, and PHP that accesses a MySQL database.
Autohosted	Load balancing, multi-tenancy, and maintenance will be handled by Windows Azure.
SharePoint-hosted	App will be written by using HTML, JavaScript, and Web Parts.
Provider-hosted	App will run on a third-party web hosting service with an ASP.NET platform.

Autohosted

Provider-hosted

SharePoint-hosted

QUESTION 20
You must select an app model to deploy apps to an Office 365 small business tenant. The business logic of the apps is located in a remote web application. What should you do?

A. Create a SharePoint-hosted app. Implement the business logic by using JavaScript.
B. Develop provider-hosted apps and integrate data sources with the business logic by using OData.
C. Deploy the business logic to the host web by using a Full Trust SharePoint solution.
D. Develop an OData service provider infrastructure and publish the provider to the _layouts directory.

Answer: B
Explanation:
In the real exam had autohosted + oData and (instead of provider hosted and oData).

QUESTION 21
A company has a SharePoint farm that has the following configuration:
- SPWFE1 and SPWFE2 are configured as front-end web servers.
- SPAPP1 and SPAPP2 are configured as application servers.
- New servers will be added to the farm.
You implement a solution that contains a custom navigation provider. You need to register a custom navigation provider by using the least amount of administrative effort. What should you do?

A. Create a web.solutionname.xml file in the \CONFIG directory and run the copyappbincontent: Stsadm command.
B. Edit the ApplicationHost.config file on each SharePoint server.
C. Edit the web.config file for the web application on all SharePoint servers.
D. Use the SPWebConfigModification class.

Answer: D
Explanation:
In Microsoft SharePoint Foundation, one way to modify web.config settings is to use the SPWebConfigModification class of the Microsoft.SharePoint.Administration namespace, which allows you to dynamically register entities. These modifications are persisted in the configuration data- base where they function as a kind of virtual web.config that effectively serves as the final layer of the .config file stack for the SharePoint Foundation web application. The changes become effective when the SPWebService.ApplyWebConfigModifications method is called.

QUESTION 22
You need to retrieve data about all the lists in a site by using the REST (Representational State Transfer) API. Which code segment should you use?

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

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

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

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

Answer: C
Explanation:
Must use _api/web/lists: To retrieve all of the lists in a specific SharePoint site, you would make a GET request to http://<site url>/_api/web/lists.
Incorrect:
Not B: The method must be GET (not POST).

QUESTION 23
Drag and Drop Questions
You need to create workflows for your business processes by using the least amount of development effort. Which four actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)

Answer Area

Verify and use the out-of-the-box workflows for the objective.

Verify and use SharePoint Designer workflows without creating any custom activities in Visual Studio.

Import Activity Designer from the Windows Azure websites.

Use Microsoft Visual Studio 2012 to create the workflow custom activities.

Use SharePoint Designer to create a workflow definition by using the activities.

Answer:

Answer Area

Verify and use the out-of-the-box workflows for the objective.

Verify and use SharePoint Designer workflows without creating any custom activities in Visual Studio.

Import Activity Designer from the Windows Azure websites.

Use Microsoft Visual Studio 2012 to create the workflow custom activities.

Use SharePoint Designer to create a workflow definition by using the activities.

Verify and use SharePoint Designer workflows without creating any custom activities in Visual Studio.

Import Activity Designer from the Windows Azure websites.

Use Microsoft Visual Studio 2012 to create the workflow custom activities.

Use SharePoint Designer to create a workflow definition by using the activities.

QUESTION 24
Hotspot Question
A company uses SharePoint for document sharing and collaboration. Users create content types for different types of documents that are created daily. All document content types have ProjectID, Type, and AuditStatus columns. ProductID is not a required field. The Auditing department requires that every document have a ProjectID within two weeks of the creation date. If a document does not have a ProjectID, the AuditStatus column must show a message for users to specify the ProjectID. For performance reasons, fewer than 50 documents at a time should be processed. You need to write a work-item timer job to meet the requirement. How should you complete the relevant code? (To answer, select the appropriate option from the drop-down list in the answer area.)

```
public class MyWorkItemTimerJob : SPWorkItemJobDefinition
{
    public static readonly
      string WorkItemJobDisplayName =
      "Contoso Work Item Time Job";
    public static readonly Guid WorkItemTypeId =
      new Guid("{4A359645-E5EF-44F3-9523-5CB43D5C0A89}");
    public MyWorkItemTimerJob()
```

```
                                                           ▼
public override Guid WorkItemType()
public override void Execute(SPJobState jobState)
```

```
    public override string DisplayName
```

```
                                                           ▼
public int BatchFetchLimit
public override int BatchFetchLimit = 50;
```

```
                                                           ▼
public override void Execute(...)
protected override bool ProcessWorkItem(...)
```

```
    private bool IsTwoWeeksOldNow(SPListItem anItem)
}
```

Answer:

```
public class MyWorkItemTimerJob : SPWorkItemJobDefinition
{
    public static readonly
      string WorkItemJobDisplayName =
      "Contoso Work Item Time Job";
    public static readonly Guid WorkItemTypeId =
      new Guid("{4A359645-E5EF-44F3-9523-5CB43D5C0A89}");
    public MyWorkItemTimerJob()
```

▼
public override Guid WorkItemType()
public override void Execute(SPJobState jobState)

```
    public override string DisplayName
```

▼
public int BatchFetchLimit
public override int BatchFetchLimit = 50;

▼
public override void Execute(...)
protected override bool ProcessWorkItem(...)

```
    private bool IsTwoWeeksOldNow(SPListItem anItem)
}
```

QUESTION 25
Drag and Drop Questions
You plan to use an app event receiver in conjunction with a remote event receiver. You need to create the remote event receiver by using Visual Studio 2012. Which three actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)

Answer:

QUESTION 26
Drag and Drop Questions
You create a new Enterprise Content Management (ECM) project. You add a content type to the Visual Studio Project by using the Content Type Designer in Visual Studio 2012. What will the designer-generated XML look like? (To answer, drag the appropriate XML elements to the correct location or locations in the answer area. Each XML element may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Answer Area

```
Column

Elements

FieldRef

FieldRefs

SiteColumn
```

```xml
<?xml version="1.0" encoding="utf-8"?>
<                    xmlns="http://schemas.microsoft.com/sharepoint/">
  <ContentType ID="0x0100C246DA2BB57D493D916BDD32671C57FA"
        Name="ContentTypeAB"
        Group="myContentTypes"
        Description="ContentTypeAB"
        Inherits="FALSE"
        Version="0">
    <              >

    <              ID="{8fb95db3-0e69-4232-8827-c5b3c6b35333}"
        DisplayName="Site Column A" Required="TRUE" Name="SiteColumnA" />
    </              >
  </ContentType>
</              >
```

Answer:

Answer Area

```
Column

Elements

FieldRef

FieldRefs

SiteColumn
```

```xml
<?xml version="1.0" encoding="utf-8"?>
<Elements          xmlns="http://schemas.microsoft.com/sharepoint/">
  <ContentType ID="0x0100C246DA2BB57D493D916BDD32671C57FA"
        Name="ContentTypeAB"
        Group="myContentTypes"
        Description="ContentTypeAB"
        Inherits="FALSE"
        Version="0">
    <FieldRefs          >

    <FieldRef           ID="{8fb95db3-0e69-4232-8827-c5b3c6b35333}"
        DisplayName="Site Column A" Required="TRUE" Name="SiteColumnA" />
    </FieldRefs         >
  </ContentType>
</Elements           >
```

QUESTION 27
Drag and Drop Questions
You work on a SharePoint Enterprise Content Management (ECM) project. You develop the Litware Document Approval workflow that enables a group of people to review, approve, or reject documents and document changes. You need to assign the Litware Document Approval workflow to the Document content type. How should you complete the relevant code? (To answer, drag the appropriate code segments to the correct location or locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Answer Area

```
public override void FeatureActivated
  (SPFeatureReceiverProperties properties)
{
  SPWeb spWeb = (SPWeb)properties.Feature.Parent;
  var document =
    spWeb.                                    ;

  SPWorkflowTemplate wfTemplate =
    spWeb.WorkflowTemplates.GetTemplateByName
    ("Litware Document Approval", spWeb.Locale);

  var wfTaskList =                              ;

  var wfHistoryList =                           ;

  SPWorkflowAssociation wfAssociation =
    SPWorkflowAssociation.

  (wfTemplate, "Document Approval", wfTaskList, wfHistoryList);
  document.WorkflowAssociations.Add(wfAssociation);
  document.Update();
}
```

"Tasks"

"WF History"

Lists["Documents"]

spWeb.Lists["Tasks"]

CreateListAssociation

ContentTypes["Document"]

spWeb.Lists["WF History"]

CreateWebContentTypeAssociation

Answer:

Answer Area

```
public override void FeatureActivated
  (SPFeatureReceiverProperties properties)
{
  SPWeb spWeb = (SPWeb)properties.Feature.Parent;
  var document =
    spWeb. ContentTypes["Document"]          ;

  SPWorkflowTemplate wfTemplate =
    spWeb.WorkflowTemplates.GetTemplateByName
    ("Litware Document Approval", spWeb.Locale);

  var wfTaskList =   "Tasks"                    ;

  var wfHistoryList =   "WF History"            ;

  SPWorkflowAssociation wfAssociation =
    SPWorkflowAssociation.  CreateWebContentTypeAssociation

  (wfTemplate, "Document Approval", wfTaskList, wfHistoryList);
  document.WorkflowAssociations.Add(wfAssociation);
  document.Update();
}
```

"Tasks"

"WF History"

Lists["Documents"]

spWeb.Lists["Tasks"]

CreateListAssociation

ContentTypes["Document"]

spWeb.Lists["WF History"]

CreateWebContentTypeAssociation

QUESTION 28
Hotspot Question
You develop a SharePoint-hosted app that is used by internal users to read and write data. The app has the following requirements:
- The app must be able to find and display the products that are purchased most often by customers.
- The app must be able to read product information from a custom SQL Server database by using an external list.
- The app must be able to read from and write to the user profile.
- The app must be able to make changes to lists by using the minimum permissions necessary.
- The app must be able to read enterprise keywords.

You need to configure permissions for the app. Which scopes and permissions should you use?
(To answer, select the appropriate options from each drop-down list in the answer area.)

Scope	Permission
▼	QueryAsUserIgnoreAppPrincipal
Search Reporting Enterprise Search Enterprise Resources	
▼	Read
BCS Tenant Workflow Site Collection	
User Profiles	▼
	Read Write Manage Full Control
Web	▼
▼	Read Write Manage Full Control
Search Workflow Social Feed Taxonomy	

Answer:

Scope	Permission
▼	QueryAsUserIgnoreAppPrincipal
Search	
Reporting	
Enterprise Search	
Enterprise Resources	
▼	Read
BCS	
Tenant	
Workflow	
Site Collection	
User Profiles	▼
	Read
	Write
	Manage
	Full Control
Web	▼
▼	Read
	Write
Search	**Manage**
Workflow	Full Control
Social Feed	
Taxonomy	

QUESTION 29
Drag and Drop Questions
You create a solution to access data contained in SharePoint by using a client-side object model (CSOM). How should you complete the relevant code? (To answer, drag the appropriate code segments to the correct location or locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

```
                        Answer Area

clientContext          ClientContext [          ] = new ClientContext(siteUrl);

collListItem           clientContext.Credentials = new NetworkCredential("userid","password","domain");
                       SP.List oList = clientContext.Web.Lists.GetByTitle("Dev");
ExecuteQuery           CamlQuery q = new CamlQuery();
                       q.ViewXml = @"<View/>";
Load
                       ListItemCollection [          ] = oList.GetItems(q);
ExecuteQueryAsync

                       clientContext.[          ] (collListItem);

                       clientContext.[          ] ();

                       foreach (ListItem oListItem in collListItem)
                       {
                           ...
                       }
```

Answer:

```
                        Answer Area

clientContext          ClientContext [clientContext] = new ClientContext(siteUrl);

collListItem           clientContext.Credentials = new NetworkCredential("userid","password","domain");
                       SP.List oList = clientContext.Web.Lists.GetByTitle("Dev");
ExecuteQuery           CamlQuery q = new CamlQuery();
                       q.ViewXml = @"<View/>";
Load
                       ListItemCollection [collListItem] = oList.GetItems(q);
ExecuteQueryAsync

                       clientContext.[Load] (collListItem);

                       clientContext.[ExecuteQuery] ();

                       foreach (ListItem oListItem in collListItem)
                       {
                           ...
                       }
```

QUESTION 30
Adventure Works uses a SharePoint publishing site to host their public-facing website at
http://www.adventureworks.com. The website gives external users the ability to register and sign
in to the site to buy Adventure Works products. You notice that publicly registered users see the
SharePoint ribbon. You need to ensure that the SharePoint ribbon is available only to content
authors and administrators. What should you do?

A. Open the current site master page in SharePoint Designer, place the SharePoint:SPSecurityTrimmedCcntrol
control around the div tag with the 54-ribbonrow ID.
Set the PermissionsString to ManageSubWeb.
B. Open the current site master page in SharePoint Designer, find a div tag with the s4-ribbonrow ID, and then
remove all of the contents of the div.
C. Open the current site master page in SharePoint Designer and then place the SharePoint:SPSecurityTrimmed
Control control around the div tag with the 34-ribbonrow ID.
Set the PermissionsString to AddAndCustomizePages.
D. In the SharePoint project, add an Empty Element and then use the <HideCustomAction> tag to hide the ribbon.

Answer: C
Explanation:

If you designed a custom master page for your SharePoint 2010 and the ribbon is in your way, SharePoint has a built-in control that lets you hide it from anonymous users in few easy steps:
- Open and check-out your master page, find where your ribbon control starts or look for <WebPartPages:SPWebPartManager id="m" runat="Server"/>.
- Place this control below <Sharepoint:SPSecurityTrimmedControl runat="server" Permissions="AddAndCustomizePages">.
- Find where your ribbon control ends or look for <div id=54-workspace> and place the closing control above it </SharePoint:SPSecurityTrimmedControl>.
- Save, check-in the master page and publish it to see the changes.
From now on, only logged in users with the right permissions will be able to see the ribbon on the top.
Incorrect:
Not A: Permission should be set to AddAndCustomizePages not ManageSubWeb.

QUESTION 31
Adventure Works uses a web design firm to design the user interface for an upcoming toy sales website, www.toys.adventureworks.com. The website is built by using a SharePoint publishing template. Adventure Works must implement the newly designed user interface for the site. The design firm provides a set of HTML, CSS, and JavaScript files. You need to create and publish a SharePoint master page by using the supplied files. What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

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

Answer: DEF
Explanation:
After you convert your master page and successfully preview it, you are ready to add snippets to the master page. A snippet is an HTML representation of a SharePoint component -- such as a navigation control or search box or Web Part - that you can add to your master page. Adding snippets to your master page is how you quickly build the full range of SharePoint functionality into your master page. Adding snippets is basically a three-step process:
- Find and configure snippets in the Snippet Gallery.
- Copy snippets to your HTML master page.
- Preview and style snippets by using CSS.
After you configure a snippet, you copy it to the Clipboard and then paste it at the right spot in your HTML file. Your HTML design may already contain mockup or static controls, in which case you'll want to delete them or comment them out as you replace them with dynamic snippets from the Snippet Gallery.
http://msdn.microsoft.com/en-us/library/jj822363.aspx
Note:
D, Not A: To convert the HTML file into a .master file:

- Browse to your publishing site.
- In the upper-right corner of the page, choose Settings, and then choose Design Manager.
- In Design Manager, in the left navigation pane, choose Edit Master Pages.
- Choose Convert an HTML file to a SharePoint master page.
- In the Select an Asset dialog box, browse to and select the HTML file that you want to convert.
Etc.

QUESTION 32
You have an app named TaskManagerApp that is published at http://sharepoint.contoso.com/apps.
You need to remove the app and ensure that users will no longer be able to use the app. Which
Windows PowerShell cmdlets should you run?

A. $instance = Get-SPAppInstance
   Web http://sharepoint.contoso.com/apps | where {$_.Title -eq 'TaskManagerApp'}
   Uninstall-SPAppInstance -Identity $instance

B. $instance = Get-SPWebApplication
   http://sharepoint.contoso.com/apps
   Uninstall-SPAppInstance -Identity $instance

C. $instance = Get-SPAppInstance
   -Web http://sharepoint.contoso.com/apps | where {$_.Title -eq 'TaskManagerApp'}
   Disable-SPFeature -Identity $instance -URL http://sharepoint.contoso.com/apps

D. $instance = Get-SPWebApplication
   http://sharepoint.contoso.com/apps
   Remove-SPServiceApplication $instance

Answer: A
Explanation:
* Get-SPAppInstance: Use the Get-SPAppInstance cmdlet to get a collection of app instances that
are installed on an SP-Web object.
* Uninstall-SPAppInstance: Use the Uninstall-SPAppInstance cmdlet to uninstall an instance of an
app. This cmdlet is required to be run before a migration process.
Incorrect:
Not B, D: get-SPWebApplication: The Get-SPWebApplication cmdlet returns all Web applications
that match the scope given by the Identity parameter. The Identity can be the name of the name,
URL, or GUID of the Web application. If no Identity is specified, all Web applications are returned.
Not C: Disable-SPFeature: The Disable-SPFeature cmdlet disables a SharePoint Feature at the
given scope.

QUESTION 33
You create a cloud-hosted SharePoint app. You must make the app available in the SharePoint
Store for customers to install on their host webs. You need to keep the style and navigation of the
app the same as the host web of the app after it is installed by any customer. What should you do?

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

Use the Chrome control in JavaScript.

Answer: D
Explanation:
The chrome control in SharePoint 2013 enables you to use the header styling of a specific SharePoint site in your app without needing to register a server library or use a specific technology or tool. To use this functionality, you must register a SharePoint JavaScript library through a standard `<script>` tag. You can provide a placeholder by using an HTML `div` element and further customize the control by using the available options. The control inherits its appearance from the specified SharePoint website.
http://msdn.microsoft.com/en-us/library/office/fp179916.aspx

QUESTION 34
Hotspot Question
You develop an autohosted app for SharePoint. The app will access SharePoint data in the host web. You need to configure the minimum required data access permissions for the app. How should you configure permissions in the app manifest? (To answer, select the appropriate option from each drop-down list in the answer area.)

Scope	Permissions
Business Connectivity Services (BC Search Web Workflow	FullControl Manage Read Write

Answer:

Scope	Permissions
Business Connectivity Services (BC Search **Web** Workflow	FullControl Manage **Read** Write

Case Study 1 - Consolidated Messenger (QUESTION 35 - QUESTION 47)
Background
Business Scenario
You are the lead architect, developer, and web administrator of SharePoint 2013 for your company, Consolidated Messenger. Consolidated Messenger is a national company with hundreds of franchises. Consolidated Messenger focuses on bicycle-based courier services in metropolitan areas. Consolidated Messenger sells franchises to franchisees. Franchisees have three user types:

| User	Role
Franchise Manager	Responsible for managing the franchise
Franchise Employee	Responsible for managing accounts and setting pick-up and drop-off locations for couriers
Courier	Responsible for picking-up and dropping off packages

Technical Scenario

When a franchisee purchases a franchise, they are provided with:

```
- Access to Consolidated Messenger's SharePoint 2013 multi-tenant farm
located at https://sp.consolidatedmessenger.com.
- Access to a Customers list in the Corporate site collection, named
CorporateSiteCollection, which includes a list of all Customers across
all franchisees.
-   A   single   site   collection   for   each   franchisee,   named
FranchiseeSiteCollection.
- An unlimited number of customer subsites for each franchisee.
- Consolidated Messenger has funded the creation of three apps.
```

App Name	Purpose
FranchiseMonitor	Used by franchisees from their franchise locations to monitor the progress of the bicycle couriers
CourierMobile	Used by bicycle couriers to perform their day-to-day function of receiving and delivering packages
CloudManager	Used to perform management of bicycle couriers, their routes, and their schedules

Solution Architecture

Multi-tenant SharePoint Farm
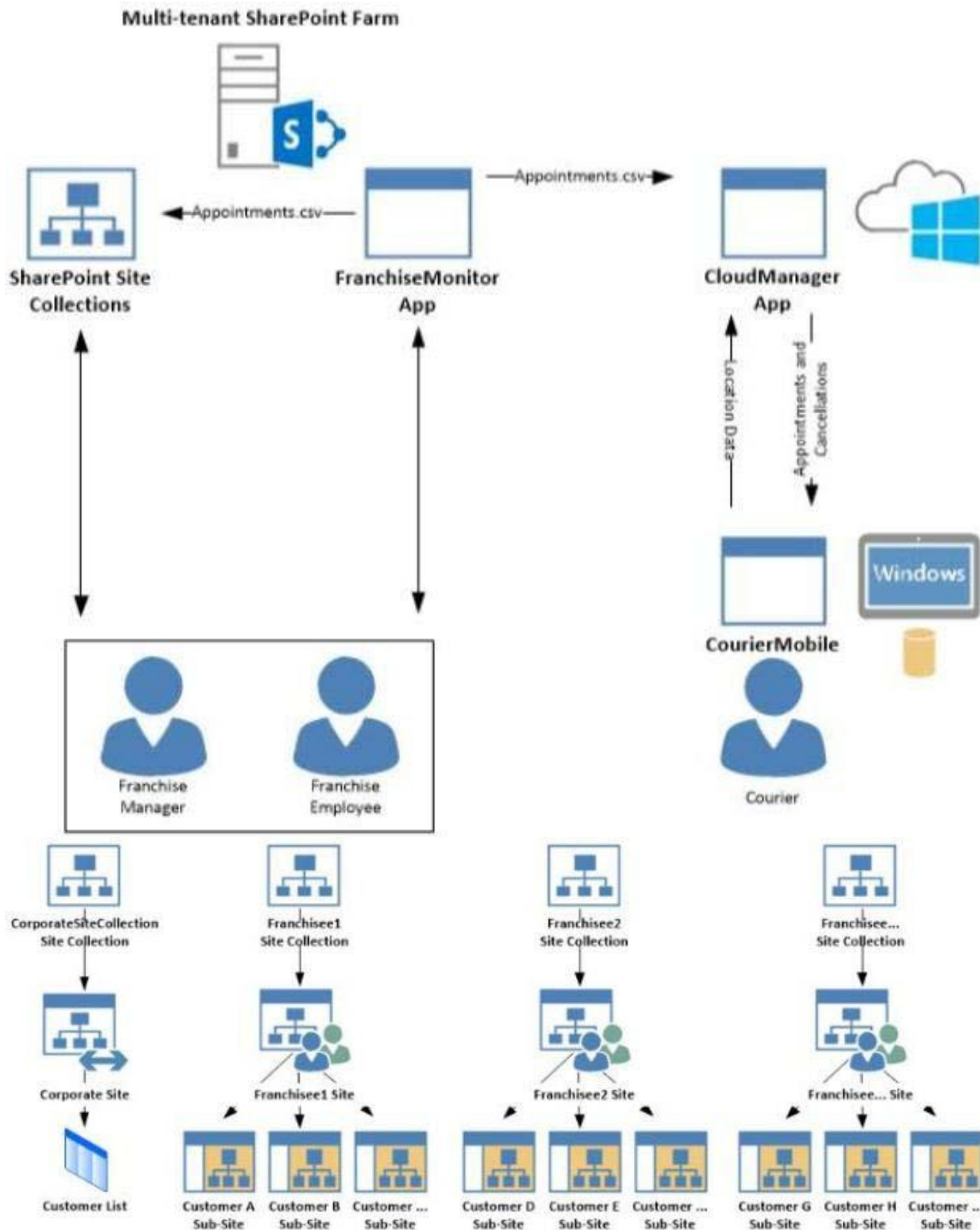
SharePoint Farm Design
My Sites are not created for each Franchisee unless they are requested.
Business Requirements

User	SharePoint Access
Franchise Manager	• Franchise Managers are site collection administrators for each franchise. • Franchise Managers may only access their site collection settings and not the settings of the web application. • Franchise Managers must be able to add users to a site in a People Picker control based on claims. • Franchise Managers must be able to search for claims by using the type-in control of the claims picker. The claims must be displayed by using a flattened structure. • Franchise Managers may access only their site collection settings and not the settings of the web application.
Franchise Employee	• Franchise employees are customer subsite owners for each franchise. • Franchise employees must be able to read from the Customers list in the CorporateSiteCollection. • Franchise employees must have complete control over the customer subsites that is assigned to the the franchise.
Courier	• No SharePoint access

Technical Requirements
Each Franchise site collection must include a SharePoint document library to store CSV files.

FranchiseMonitor App

Application Design
Franchise employees use Microsoft Excel 2013 to create a list of pick-up and drop-off locations for each bicycle courier for each day. The spreadsheet is named Appointments.csv.

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

Technical Requirements
- The FranchiseMonitor app must display the courier's location on the bicycle courier's microfeed on the SharePoint farm if the courier has remained stationary for more than three minutes.
- The FranchiseMonitor app must be listed on the Site Contents page of the host web.
- The FranchiseMonitor app must use claims-based authentication, once launched, to authenticate the franchisee against an API provided by Margie's Travel.
- The FranchiseMonitor app must be deployed to all site collections by the SharePoint administrator.
- The FranchiseMonitor app must be immediately available to be installed on websites within the tenancy on a website-by-website basis to any tenant contained in the SharePoint farm.
- The FranchiseMonitor app must be able to create lists within SharePoint to store records of the CSV files so that they may be sent to the CloudManager app.

CourierMobile App

Application Design
- Each bicycle courier for each franchise is provided a Microsoft Surface Pro device with LTE. Most bicycle couriers do not return their Microsoft

Surface Pro devices back to their franchise locations nightly.
- The CourierMobile app runs on the bicycle courier's Microsoft Surface Pro device.
- Margie's Travel provides an API to enable external developers to authenticate by using OAuth and claims-based authentication. Many couriers are members of Margie's Travel.
- The CourierMobile app receives Microsoft Outlook appointments and Outlook appointment cancellations from the CloudManager app. The appointments include the address of the location for pick-up or drop-off.

Business Requirements
- The CourierMobile app must display a Bing map to display route data when Outlook appointments or appointment cancellations are received.
- The CourierMobile app must capture the location of the Microsoft Surface Pro device on a regular interval. This data must be captured regardless of whether the device has connectivity.
- The CourierMobile app must be able to connect to the SharePoint Customers list and verify whether the account belongs to the franchisee to avoid pickups or deliveries to customers that do not belongs to the franchisee. When the CourierMobile aDD accesses the Customers list, it must only read its contents with the minimum permissions necessary.

Technical Requirements
- The CourierMobile app must provide the ability to authenticate by using the courier's Microsoft account or the Margie's Travel API.
- The CourierMobile app must include a custom sign-in page that includes branding from Consolidated Messenger and Margie's Travel, based on the authentication provider selected by the user.
- The CourierMobile app must be able to capture more than 30 million data points of location data daily as they occur and upload the location data to the cloud when connected to the Internet.

CloudManager App
Application Design
CloudManager processes two sets of data:
- Updates to the list of appointments received from the FranchiseMonitor app.
- Geo-location data received from the CourierMobile app Business Requirements.
The CloudManager app must implement business logic that parses Appointments.csv and geo-location data and sends Appointments or Appointment cancellations to the CourierMobile app.

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

Solution Code
MyClaimsProvider.es

```
CP01 [SharePointPermissionAttribute(SecurityAction.LinkDemand, ObjectModel = true)]
CP02 [SharePointPermissionAttribute(SecurityAction.InheritanceDemand, ObjectModel =
true)]
CP03

CP04     public class MyClaimsProvider : Microsoft.SharePoint.Administration.Claims.SPCla
imProvider
CP05     {
CP06         public abstract String Name;
CP07
CP08         protected abstract void FillSchema(...);
CP09         protected abstract void FillClaimTypes(...);
CP10         protected abstract void FillClaimValueTypes(...);
CP11         protected abstract void FillEntityTypes(...);
CP12
CP13         public abstract bool SupportsResolve;
CP14         protected abstract void FillResolve(...);
CP15         protected abstract void FillResolve(...);
CP16
CP17         public abstract bool SupportsSearch;
CP18         protected abstract void FillSearch(...);
CP19
CP20     }
```

AppManifest.xml for Franchise Monitor app

```
AM01 <?xml version="1.0" encoding="utf-8" ?>
AM02 <App xmlns="http://schemas.microsoft.com/sharepoint/2012/app/manifest"
AM03     ProductID="{4a07f3bd-803d-45f2-a710-b9e944c3396e}"
AM04     Version="1.0.0.0"
AM05     SharePointMinVersion="15.0.0.0"
AM06     Name="FranchiseMonitor"
AM07 >
AM08  <Properties>
AM09    <Title>Franchise Monitor App</Title>
AM10    <StartPage>~remoteAppUrl/Home.aspx?{StandardTokens}</StartPage>
AM11  </Properties>
AM12
AM13  <AppPrincipal>
AM14    <RemoteWebApplication ClientId="1ee82b34-7c1b-471b-b27e-ff272accd564" />
AM15  </AppPrincipal>
AM16
AM17  <AppPermissionRequests>
AM18    <AppPermissionRequest Scope="http://sharepoint/content/sitecollection/web/
list" Right="Write"/>
AM19      </AppPermissionRequests>
AM20 </App>
```

QUESTION 35
You need to ensure that the CourierMobile app determines whether the franchisee owns the account. What should you do?

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

Answer: A

QUESTION 36
A franchisee deletes several sites from the franchise's site collection. The franchisee site collection administrator must recover the sites. You need to instruct the franchisee site collection administrator on how to access the page to recover the sites. What should the site collection administrator do to get to the appropriate page?

A. Select General Settings for the Web Application in Central Administration and change the second stage Recycle Bin settings to 100 percent.
B. Select General Settings for the Web Application in Central Administration and change the first stage Recycle Bin settings to 0 days.
C. Select the Recycle Bin on the Site Settings page.
    Choose the appropriate sites and select Restore Selection.
    (In real exam new options were to use url: /_layouts/adminrecyclebin.aspx and recycle bin in site contents page)
D. Select the Recycle Bin in the Quick Launch page.
    Choose the appropriate sites and select Restore Selection.

Answer: C
Explanation:
The sites have been deleted. They need to be restored. A and B are wrong because modifying the Recycle Bin settings after the sites are deleted will have no effect on the deleted sites.

QUESTION 37
You need to ensure that the CloudManager app can write route progress check-ins to the courier's microfeed. What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

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

Answer: ADEF

QUESTION 38
Drag and Drop Questions
Some franchisees want to launch the FranchiseMonitor app from a link named Launch Franchise Monitor that is displayed next to the name of the user who is currently logged in. Other franchisees do not want to have the link present. The link must be contained within the same out-of-the-box control, as shown in the screenshot below:
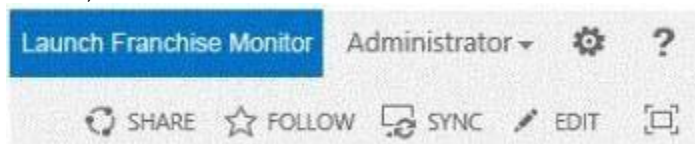
You need to configure support for the Launch Franchise Monitor link. Which four actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)

Answer Area

Add a new user control named
SuiteLinksDelegate.

Ensure that the class inherits from
the **WebPart** class and
overrides the RenderControl method.

Add a new code module named
SuiteLinksDelegate.

Create a new SharePoint 2013 Empty
Project.

Add a reference to the control to the
AppManifest file.

Add a reference to the control to an
empty elements file.

Ensure that the class inherits from the
UserControl class and
overrides the Render method.

Create a new App for SharePoint 2013
project.

Answer:

	Answer Area
Add a new user control named SuiteLinksDelegate.	Create a new SharePoint 2013 Empty Project.
Ensure that the class inherits from the **WebPart** class and overrides the RenderControl method.	Add a new code module named SuiteLinksDelegate.
	Ensure that the class inherits from the **UserControl** class and overrides the Render method.
	Add a reference to the control to an empty elements file.
Add a reference to the control to the AppManifest file.	
Create a new App for SharePoint 2013 project.	

Explanation:

http://www.learningsharepoint.com/2013/02/10/addremove-links-in-top-suitebar-skydrivesitesnewsfeed-in-sharepoint-2013/

http://www.codeproject.com/Articles/569897/UsingplusDelegateplusControlplusinplusSharepoint

1. Add the User control to project.

2. Add a Module to project which will take care of adding the user control to Delegate control. I named it as "DelegateModule". Delete sample.txt file and modify the Elements.xml to resemble something like this.

3. Create a feature and add "DelegateModule" to it.

http://mihirsharepoint.wordpress.com/2012/11/15/create-delegate-control-in-sharepoint/

1. open the visual studio and create an empty project.

2. Add the control templates mapped folder, visual webpart, empty element like below image.

3. Add the code to the designer surface of the visual webpart.

4. In elements.xml file under the empty element you added, add the following code.

5. Save the changes and deploy into the site.

QUESTION 39

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

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

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

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

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

E. ```
   public abstract String Name;
   ```

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

Answer: BDEF
Explanation:
http://technet.microsoft.com/en-
us/library/microsoft.sharepoint.administration.claims.spclaimprovider_members.aspx

QUESTION 40
You need to set the appropriate permissions for the franchise employees' customer list and customer subsite access. What should you do?

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

Answer: B

QUESTION 41
You need to create rules in the CourierMobile app based on the ItemType that arrives. For which ItemTypes should you test? (Each correct answer presents part of the solution. Choose all that apply.)

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

Answer: DE
Explanation:
http://msdn.microsoft.com/en-us/library/office/ff861573.aspx

QUESTION 42
You need to meet the requirements for data storage for the CourierMobile app and the CloudMananger app. Which technologies should you use? (Each correct answer presents part of the solution. Choose all that apply.)

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

Answer: AD
Explanation:
http://technet.microsoft.com/en-us/library/cc262787.aspx#ListLibrary
A: SQL Azure in the cloud.
D: LocalDB is a lightweight version of Express that has the same programmability features, but it runs in user mode and has a fast, zero-configuration installation and a short list of prerequisites.
Not E: List and library limits: Items -- 30,000,000 per list (supported).

QUESTION 43
Hotspot Question
You need to select the app experience for the CourierMobile app. In the App for Office 2013 dialog window, which configuration option should you select? (To answer, select the appropriate configuration option in the answer area.)

Choose the type of app you want to create and where you want it to appear

○ **Task pane app in:**
The app appears in the task pane of the Office application.
☑ Excel
☑ Word
☑ PowerPoint
☑ Project

○ **Content app in Excel**
The app appears in the body of an Excel document.

○ **Mail app in:**
The app appears adjacent to the currently viewed Outlook item based on a set of a
☑ Email Message
☑ Appointment

Answer:

Choose the type of app you want to create and where you want it to appear

○ **Task pane app in:**
The app appears in the task pane of the Office application.
☑ Excel
☑ Word
☑ PowerPoint
☑ Project

○ **Content app in Excel**
The app appears in the body of an Excel document.

○ **Mail app in:**
The app appears adjacent to the currently viewed Outlook item based on a set of a
☑ Email Message
☑ Appointment

QUESTION 44
You need to create a custom sign-in page to allow the users of the FranchiseMonitor app to authenticate against SharePoint and Margie's Travel API. What should you do?

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

Answer: B
Explanation:
The ASPXAUTH cookie is used to determine if a user is authenticated. FedAuth Cookie is what is used with Claims Authentication. SharePoint STS will issue the FedAuth Cookie which contains the references to the claims token. Claim tokens are actually stored separately.

QUESTION 45
Hotspot Question
You need to design the FranchiseMonitor app to meet the requirements. What should you do? (To

answer, select the appropriate option from each drop-down list in the answer area.)

Create the **CourierManagerApp** app as an [dropdown]

App for Office 2013
App for SharePoint 2013

Design the **CourierManagerApp** app UI with a/an [dropdown] app shape.

Part
UI Custom Action
Immersive Full Page

Answer:

Create the **CourierManagerApp** app as an [dropdown]

App for Office 2013
App for SharePoint 2013

Design the **CourierManagerApp** app UI with a/an [dropdown] app shape.

Part
UI Custom Action
Immersive Full Page

QUESTION 46
Hotspot Question
You need to design the CloudManager app to meet the requirements. What should you do? (To answer, select the appropriate option from each drop-down list in the answer area.)

Answer Area

Create a CloudManagerApp app as an [dropdown]

App for Office 2013
App for SharePoint 2013

Design the CloudManagerApp app UI with a/an [dropdown] app shape.

Part
UI Custom Action
Immersive Full Page

Answer:
Answer Area

Create a CloudManagerApp app as an [dropdown]

App for Office 2013
App for SharePoint 2013

Design the CloudManagerApp app UI with a/an [dropdown] app shape.

Part
UI Custom Action
Immersive Full Page

QUESTION 47

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

```
<AppPermissionRequests>
  <AppPermissionRequest Scope="Target 1"
          Right="Target 2"/>
</AppPermissionRequests>
</App>
```

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

Answer Area

Target 1:
```
http://sharepoint/content/tenant
http://sharepoint/content/sitecollection/
http://sharepoint/content/sitecollection/web
http://sharepoint/content/sitecollection/web/list
```

Target 2:
```
Read
Write
Manage
FullControl
```

Answer:
Answer Area

Target 1:
```
http://sharepoint/content/tenant
http://sharepoint/content/sitecollection/
http://sharepoint/content/sitecollection/web
http://sharepoint/content/sitecollection/web/list
```

Target 2:
```
Read
Write
Manage
FullControl
```

Case Study 2 - SharePoint (QUESTION 48 - QUESTION 57)

Backgroud
A client asks you to create a basic task tracking app for SharePoint. The app will be hosted remotely. The users will be able to set up task lists, mark tasks as completed, and manage their task lists.
Business Requirements
The client specifies the following business requirements:
- Users can create task lists.
- Users can retrieve task lists.
- Project leads can remove task lists.
- Users can modify task lists.
- Only users with a paid license can use the app.
- Tasks can be tagged with the programming language being used. Task list items may be tagged only with the following terms: C++, C#, and JavaScript.
- Navigational links across the top should be driven by the term store

and use URLs that will improve search engine ranking.
- Set a system message that all users can access without the need to query a data source.
- Remote users will authenticate to the app by using a username and password.
- During development, the app will be tested by deploying to a development SharePoint site at http://sharepoint.contoso.com/tasks.
- When completed, the app will be published to the Microsoft Store as a paid app.

Existing Site Configuration

The table below shows the current site configuration for the client's SharePoint site.

Site/Site Collection	Description
http://contoso-public.sharepoint.com	Public-facing site
https://contoso.sharepoint.com/tasks	Development site for tasks app
https://contoso.sharepoint.com/search	Search site
https://contoso-my.sharepoint.com	Personal My Site

Task List Design

The app should create a SharePoint list named Tasks with the following attributes:

Field Name	Data Type	Contents
Department	Text	
Description	Text	
Hours	Number	
Completed	Radio Button	"Yes", "No"

User Groups

SharePoint groups will be used to manage access to features of the app.

Group	Description
Admin	Admin can perform all tasks including creating projects, assigning users to projects, and maintaining all task lists.
Project Leads	Project leaders are the only members who have the ability to delete tasks.
Users	Users have the ability to add and manage tasks in their own projects, but cannot delete tasks.

Task Display

The app should retrieve the Tasks list and display the contents on a webpage 20 tasks at a time.

Technical Requirements

You have the following requirements:
- Query the Microsoft apps licensing service to validate the license.
- Package and configure the app.
- Configure navigation to use taxonomy-based navigation automatically generated by SharePoint.
- Utilize CSOM to retrieve data from the SharePoint site.
- Implement the system message by using a property bag that uses the key named SystemMessage.
- Implement and configure the credential store.

– The app will be internally tested for at least one month to track and fix any run-time errors.

Pending Issues

When you deploy the app from Visual Studio 2012, you receive the error:

```
"Error occurred in deployment step 'Install app for SharePoint':
Sideloading of apps is not enabled on this site."
```

Application Structure

Relevant portions 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.)

LicesnseValidation.es

```
LV01  protected bool IsLicenseValid(Guid productId, ClientContext context)
LV02  {
LV03    string token = "";
LV04    ClientResult<AppLicenseCollection> licenseCollection =
 Utility.GetAppLicenseInformation(context, productId);
LV05    context.Load(context.Web);
LV06    context.ExecuteQuery();
LV07    foreach (AppLicense license in licenseCollection.Value)
LV08    {
LV09        token = license.RawXMLLicenseToken;
LV10        break;
LV11    }
LV12    VerificationServiceClient service = null;
LV13    VerifyEntitlementTokenResponse result = null;
LV14    VerifyEntitlementTokenRequest request =
 new VerifyEntitlementTokenRequest();
LV15    request.EntitlementToken = token;
LV16    service = new VerificationServiceClient();
LV17    result = service.VerifyEntitlementToken(request);
LV18    if (result != null && result.AssetId != null)
LV19
LV20    }
LV21    return false;
LV22  }
```

SystemMessage.es

```
SM01 public void SetSystemMessage(string message)
SM02 {
SM03     string url = "https://sharepoint.contoso.com/tasks";
SM04     string property = "SystemMessage";
SM05     var context = new ClientContext(url);
SM06     NetworkCredential credentials =
 new NetworkCredential("", "", "");
SM07     context.Credentials = credentials;
SM08
SM09     Site site = context.Site;
SM10     context.Load(site);
SM11     Web web = site.RootWeb;
SM12     context.Load(web, w => w.AllProperties);
SM13     context.ExecuteQuery();
SM14     PropertyValues propertyValues = web.AllProperties;
SM15     context.Load(propertyValues);
SM16     web.AllProperties[property] = message;
SM17     web.Update();
SM18 }
```

ImplementTaskList.es

```
IL01 protected void ImplementTaskList()
IL02 {
IL03     ClientContext context = new ClientContext("http://sharpoing.contoso.com/tasks");
IL04     List list = context.Web.Lists.GetByTitle("Announcements");
IL05     Field department =
IL06        list.Fields.AddFieldAsXml("<Field DisplayName='Department' Type='Text' />",
IL07        true,
IL08        AddFieldOptions.DefaultValue);
IL09     FieldText departmentField = context.CastTo<FieldText>(department);
IL10     departmentField.Update();
IL11     Field description =
IL12        list.Fields.AddFieldAsXml("<Field DisplayName='Department' Type='Text' />",
IL13        true,
IL14        AddFieldOptions.DefaultValue);
IL15     FieldText descriptionField = context.CastTo<FieldText>(description);
IL16     descriptionField.Update();
IL17     Field hours =
IL18        list.Fields.AddFieldAsXml("<Field DisplayName='Hours' Type='Number' />",
IL19        true, AddFieldOptions.DefaultValue);
IL20     FieldNumber hoursField = context.CastTo<FieldNumber>(hours);
IL21     hoursField.Update();
IL22
IL23     context.ExecuteQuery();
IL24 }
```

RetrieveTaskList.es

```
RT01 protected void RetrieveTaskList()
RT02 {
RT03    ClientContext context = new
RT04        ClientContext("https://sharepoint.contoso.com/tasks");
RT05    List taskList = context.Web.Lists.GetByTitle("Tasks");
RT06    CamlQuery query = CamlQuery.CreateAllItemsQuery(20);
RT07    Microsoft.SharePoint.Client.ListItemCollection
RT08        tasks = taskList.GetItems(query);
RT09    context.Load(tasks);
RT10    context.ExecuteQuery();
RT11    foreach (Microsoft.SharePoint.Client.ListItem task in tasks)
RT12    {
RT13       ...
RT14    }
RT15 }
```

CanDeleteTask.es

```
CD01 protected bool CanDeleteTask(string targetEmail)
CD02 {
CD03    ClientContext context = new ClientContext("https://sharepoint.contoso.com/
tasks");
CD04
CD05    context.ExecuteQuery();
CD06
CD07    foreach (User user in members.Users)
CD08    {
CD09       if (user.Email == targetEmail)
CD10       {
CD11          return true;
CD12       }
CD13    }
CD14    return false;
CD15 }
```

TermSet Navigation.es

```
TN01  public void CreateNavigationTermSet()
TN02  {
TN03      ClientContext clientContext = new ClientContext("https://sharepoint.contoso.com/
tasks");
TN04      TaxonomySession session = TaxonomySession.GetTaxonomySession(clientContext);
TN05      taxonomySession.UpdateCache();
TN06      clientContext.Load(session, ts => ts.TermStores);
TN07      clientContext.ExecuteQuery();
TN08      TermStore store = taxonomySession.TermStores[0];
TN09      clientContext.Load(store,
TN10          s => s.Name,
TN11          s => s.WorkingLanguage);
TN12      TermGroup siteCollectionGroup = termStore.GetSiteCollectionGroup
(clientContext.Site, createIfMissing: true);
TN13      TermSet set = siteCollectionGroup.CreateTermSet("Task Terms");
TN14      store.CommitAll();
TN15      clientContext.ExecuteQuery();
TN16
TN17      termSet.IsNavigationTermSet = true;
TN18      termSet.TargetUrlForChildTerms.Value = "~site/Pages/Tasks/Tasks.aspx";
TN19      termStore.CommitAll();
TN20      clientContext.ExecuteQuery();
TN21      NavigationTerm term = termSet.CreateTerm("Programming
Languages", NavigationLinkType.SimpleLink,
TN22          Guid.NewGuid());
TN23      term.SimpleLinkUrl = "https://sharepoint.contoso.com/tasks";
TN24
TN25      term.GetTaxonomyTerm().TermStore.CommitAll();
TN26      clientContext.ExecuteQuery();
TN27  }
```

QUESTION 48
Drag and Drop Question
You need add to code at line IL22 to implement the task list design. You have the following code:

```
Field completed = list.Fields.AddFieldAsXml(
    "<Field DisplayName='Completed'
    Type=Target 1/>",
    true,
    AddFieldOptions.DefaultValue);
FieldChoice completedField =
context.CastTo<FieldChoice>(completed);
    completedField.EditFormat =
    ChoiceFormatType.Target 2;
    string[] choices = { Target 3 };
    completedField.Choices = choices;
```

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

Code Segments

| Text |
| Choice |
| DropDown |
| FieldText |
| FieldChoice |
| RadioButtons |
| "Yes", "No" |
| "True", "False" |

Answer Area

Target 1:	Code Segment
Target 2:	Code Segment
Target 3:	Code Segment

Answer:

Code Segments

| Text |
| Choice |
| DropDown |
| FieldText |
| FieldChoice |
| RadioButtons |
| "Yes", "No" |
| "True", "False" |

Answer Area

Target 1:	Choice
Target 2:	RadioButtons
Target 3:	"Yes", "No"

QUESTION 49
You receive an error when you deploy the app. You need to resolve the error. What should you do?

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

D. Deploy the app to https://contoso.sharepoint.com/tasks.

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

QUESTION 50
You need to implement term set navigation. Which code segment should you insert at line TN16?

```
A.  NavigationTermSet navigationTerms =
    NavigationTermSet.GetAsResolvedByWeb(clientContext,
    termSet, clientContext.Web,
    "GlobalNavigationTaxonomyProvider");

B.  NavigationTermSet navigationTerms =
    NavigationTermSet.GetAsResolvedByWeb(clientContext,
    termSet, clientContext.Web,
    "GlobalNavigationSwitchableProvider");

C.  NavigationTermSet navigationTerms =
    NavigationTermSet.GetAsResolvedByWeb(clientContext,
    termSet, clientContext.Web,
    "CurrentNavigationTaxonomyProvider");

D.  NavigationTermSet navigationTerms =
    NavigationTermSet.GetAsResolvedByWeb(clientContext,
    termSet, clientContext.Web,
    "CurrentNavigationSwitchableProvider");
```

Answer: A
Explanation:
http://msdn.microsoft.com/en-US/library/microsoft.sharepoint.publishing.navigation.standardnavigationprovidernames_members.aspx

QUESTION 51
You need to validate that specific users can delete tasks. Which code segment should you insert at line CD04?

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

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

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

D. GroupCollection groups = context.Web.SiteGroups;
   Group members = groups.GetByName("Project Leads");
   context.Load(members.Users);
```

Answer: D
Explanation:
Retrieving all users from a SharePoint group. The SiteGroups property of the Web class gets all groups in all Web sites within a site collection.

QUESTION 52
You need to implement term set navigation. Which code segment should you insert at line TN24?

```
A. NavigationTerm childTerm
     = term.CreateTerm("C++", NavigationLinkType.Root, Guid.NewGuid());

B. NavigationTerm childTerm
     = term.CreateTerm("C++", NavigationLinkType.Default, Guid.NewGuid());

C. NavigationTerm childTerm
     = term.CreateTerm("C++", NavigationLinkType.SimpleLink, Guid.NewGuid());

D. NavigationTerm childTerm
     = term.CreateTerm("C++", NavigationLinkType.FriendlyUrl, Guid.NewGuid());
```

Answer: D
Explanation:
http://msdn.microsoft.com/library/microsoft.sharepoint.publishing.navigation.navigationlinktype.aspx

QUESTION 53
You need to complete the code at line LV19 to implement the validation of the app license. Which code segment should you use?

```
A. if (result.EntitlementType.ToLower() == "trial")
   {
      return true;
   }

B. if (result.EntitlementType.ToLower() == "valid")
   {
      return true;
   }

C. if (result.EntitlementType.ToLower() == "paid")
   {
      return true;
   }

D. if (result.EntitlementType.ToLower() == "free")
   {
      return true;
   }
```

Answer: C
Explanation:
http://msdn.microsoft.com/en-
us/library/office/verificationsvc.verifyentitlementtokenresponse.entitlementtype.aspx

QUESTION 54
You receive an error when you deploy the app. You need to resolve the error. What should you do?

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

Answer: D

QUESTION 55
You need to configure navigation for the site. What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

A. Create simple links or headers for new pages.
B. Create friendly URLs for new pages automatically.
C. Add unique identifiers to new pages.
D. Create term-driven pages with friendly URLs.
E. Add new pages to navigation automatically.

Answer: ACD

QUESTION 56
You need to configure the credential store for the app. Which properties should you configure? (Each correct answer presents part of the solution. Choose all that apply.)

A. Pin
B. Windows Password

C. Windows User Name
D. Password
E. User Name

Answer: DE

QUESTION 57
You need to deploy the package. Which file should you select?

A. the file ending in .publish
B. the file ending in .wsp
C. the file ending in .dll
D. the file ending in .app

Answer: D
Explanation:
To publish your app for SharePoint, upload the app manifest file (.app) of your app to the Office Store, the Apps for Office catalog, SharePoint, a file share, or the Exchange catalog.

Case Study 3 - Coho Winery (QUESTION 58 - QUESTION 68)

Background
Coho Winery implements a SharePoint farm. They have an intranet site for company employees and an extranet site for their customers. Coho Winery sells products to wholesale and retail customers. Customers must be able to order specific brands and pay directly.
Business Requirements
Site Collection
The company must organize its main enterprise site to have multiple site collections for different wine brands from various regions. Site documents must have a consistent look and feel.
New Features
The first version (1.0.0.0) of the feature must support the addition of newer functionality when the feature is upgraded to version 1.5.0.0.
Technical Requirements
General
- A Document content type named Finance must be created at the site level.
It must contain two site columns named Customer Name and Transaction Date.
- The Order Details and Payment Confirmation content types must be derived
from the Finance content type.
- Workflows associated with document content types must be initiated when
documents are generated.
- When Payment Confirmation documents are generated, a workflow must send
a notification to the customer by email.
User Authorization
- A custom role named Whole sale must be created. Wholesale customers
must be assigned to this role in order to view the promotions page.
- A custom permission level must be created. This permission level must
add the ViewPages permission to the existing base permissions. This
permission level must be added to Wholesale user role.
- Anonymous users must be able to browse the site with limited access to
resources.
- The web application has been created with anonymous access enabled.
- Users are prompted for credentials when they browse to the site.
Application Lifecycle Management
- Versioning of the solution artifacts must adhere to industry best

practices.
- In a future upgrade process, a new site column named Division must be added to the Finance content type programmatically.
- Only one version of an assembly must be available at runtime.
- Code based hot fixes must be deployed directly to the Global Assembly Cache on all SharePoint servers.
- During maintenance periods, content must be available but must not be modified.

Backup and Recovery
- In the event of hardware failure, the SharePoint environment must be restored to the most recent date.
- The backup process must not degrade system performance.

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

Automation
Windows PowerShell must be used to automate all operations wherever possible.

Application Structure
Relevant portions of the application 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.)

ContentType.es

```
CT01  public override void
 FeatureActivated(SPFeatureReceiverProperties spFtRcvProperties)
CT02  {
CT03     SPWeb web =
 ((SPSite)spFtRcvProperties.Feature.Parent).RootWeb;
CT04     string financeColumn = "Finance Columns";
CT05     string customerFieldName =
 web.Fields.Add("Customer Name", SPFieldType.Text, true);
CT06
CT07     string transDateFieldName = web.Fields.Add("Transaction
Date", SPFieldType.DateTime, true);
CT08     ...
CT09     string contentTypeGroup = "Finance Content Types";
CT10     SPContentType docContentType =
 web.AvailableContentTypes[SPBuiltInContentTypeId.Document];
CT11
CT12     docContentType1 = web.ContentTypes.Add(docContentType1);
CT13     docContentType1.Group = contentTypeGroup;
CT14     SPFieldLink transDateFieldRef =
 new SPFieldLink(transDateField);
CT15     transDateFieldRef.Required = true;
CT16     docContentType1.FieldLinks.Add(transDateFieldRef);
CT17     docContentType1.Update();
CT18     docContentType2 = web.ContentTypes.Add(docContentType2);
CT19     docContentType2.Group = contentTypeGroup;
CT20     SPFieldLink titleODFieldRef =
 docContentType2.FieldLinks[SPBuiltInFieldId.Title];
CT21     ...
CT22     titleODFieldRef.Required = true;
CT23     ...
CT24     docContentType2.Update();
CT25     docContentType3 = web.ContentTypes.Add(docContentType3);
CT26     docContentType3.Group = contentTypeGroup;
CT27     SPFieldLink titlePmtFieldRef =
 docContentType3.FieldLinks[SPBuiltInFieldId.Title];
CT28     ...
CT29     titlePmtFieldRef.Required = true;
CT30     ...
CT31     docContentType3.Update();
CT32  }
CT33
CT34  {
CT35     SPWeb parentWeb = (SPWeb)properties.Feature.Parent;
CT36     switch (upgradeActionName)
CT37     {
CT38       case "                          ":
CT39         ...
CT40         break;
CT41
CT42       default:
CT43         ...
CT44         break;
CT45     }
CT46  }
```

UserAuthorization.es

```
UA01   private SPBasePermissions _permissions =
 SPBasePermissions.EmptyMask;
UA02   public override void
 FeatureActivated(SPFeatureReceiverProperties properties)
UA03   {
UA04      try
UA05      {
UA06         SPSite site =
 new SPSite("http://localhost:80/sites/brands/Wholesale");
UA07
UA08         using (SPWeb web = site.RootWeb)
UA09         {
UA10            _permissions = this.GetExistingPermissions();
UA11
UA12            foreach (SPWeb spWebItem in web.Webs)
UA13            {
UA14               ...
UA15            }
UA16         }
UA17      }
UA19      {
UA20
UA21      }
UA22
UA23   }
UA24   private SPBasePermissions GetExistingPermissions()
UA25   {
UA26      SPBasePermissions permissions =
 SPBasePermissions.EmptyMask;
UA27      ...
UA28      return permissions;
UA29   }
```

ContentType.Finance.Template.xml

```
CX01  <Feature Id="08380D6A-858C-4618-9525-50E9D6DEAD53"
CX02   Title="ContentType.Finance"
CX03   Description="Content type for Finance"
CX04   ReceiverClass="MyFeatureReceiver.MyReceiver"
CX05   xmlns="http://schemas.microsoft.com/sharepoint/">
CX06   ...
CX07    <ElementManifests>
CX08      <ElementManifest Location="ElementsV1.xml" />
CX09      <ElementManifest Location="ElementsV2.xml" />
CX10    </ElementManifests>
CX11
CX12    <UpgradeActions>
CX13
CX14      <ApplyElementManifests>
CX15       <ElementManifest Location="ElementsV2.xml" />
CX16      </ApplyElementManifests>
CX17      <AddContentTypeField
 ContentTypeId="0x010123F15ADB2FA333AA49848E7E01BC79C9753222"
 FieldId="{4FB9816F-799D-41F3-B801-B8F5FEB3A5CD}"/>
CX18            <CustomUpgradeAction Name="          ">
CX21                <Parameters>
CX22                    <Parameter Name="Division">Finance</Parameter>
CX23                </Parameters>
CX24            </CustomUpgradeAction>
CX25
CX26    </UpgradeActions>
CX27
CX28 </Feature>
```

ExportWholesaleSites.ps1

```
EW01  $site = Get-SPSite "http://localhost:80/sites/brands/Wholesale";
EW02  foreach ($web in $site.AllWebs)
EW03  {
EW04
EW05    $web | Export-SPWeb -Path ($web.Title + ".cmp") -Force;
EW06    $date = Get-Date;
EW07    if ($web.AllProperties["LastWebExport"] -eq $null)
EW08    {
EW09      $web.AddProperty("LastWebExport", $date);
EW10      $web.Update();
EW11    }
EW12    else
EW13    {
EW14      $web.SetProperty("LastWebExport", $date);
EW15      $web.Update();
EW16    }
EW17
EW18  }
```

QUESTION 58
Drag and Drop Questions
You need to add code at line CT11 to create the content types. How should you complete the

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

```
(docContentType,
 web.ContentTypes, "Finance");

(docContentType,
 web.ContentTypes, "Order Details");

(docContentType,
 web.ContentTypes, "Payment Confirmation");

(docContentType1,
 web.ContentTypes, "Finance");

(docContentType1,
 web.ContentTypes, "Order Details");

(docContentType1,
 web.ContentTypes, "Payment Confirmation");

(docContentType2,
 web.ContentTypes, "Payment Confirmation");
```

Answer Area

```
SPContentType docContentType1 = new


SPContentType docContentType2 = new


SPContentType docContentType3 = new

```

Answer:

```
(docContentType,
 web.ContentTypes, "Finance");

(docContentType,
 web.ContentTypes, "Order Details");

(docContentType,
 web.ContentTypes, "Payment Confirmation");

(docContentType1,
 web.ContentTypes, "Finance");

(docContentType1,
 web.ContentTypes, "Order Details");

(docContentType1,
 web.ContentTypes, "Payment Confirmation");

(docContentType2,
 web.ContentTypes, "Payment Confirmation");
```

Answer Area

```
SPContentType docContentType1 = new
(docContentType,
 web.ContentTypes, "Finance");

SPContentType docContentType2 = new
(docContentType1,
 web.ContentTypes, "Order Details");

SPContentType docContentType3 = new
(docContentType1,
 web.ContentTypes, "Payment Confirmation");
```

Explanation:
http://msdn.microsoft.com/en-us/library/ms480288.aspx

QUESTION 59
Hotspot Question
You need to create the required site columns. How should you complete the relevant code? (To answer, select the appropriate code segment from each drop-down list in the answer area.)

```
String customerFieldName = web.Fields.Add("Customer Name",
SPFieldType.Text, true);
SPFieldText customerField = web.Fields.
```

▼	(customerFieldName) as SPFieldText;
Add	
CreateNewField	
GetFieldByInternalName	

▼
customerField.Group = financeColumn;
customerField.XPath = financeColumn;
customerField.RelatedField = financeColumn;

```
customerField.Update();
```

▼
Commit();
Update();
SetCustomProperty();

Answer:

```
String customerFieldName = web.Fields.Add("Customer Name",
SPFieldType.Text, true);
SPFieldText customerField = web.Fields.
```

▼	(customerFieldName) as SPFieldText;
Add	
CreateNewField	
GetFieldByInternalName	

▼
customerField.Group = financeColumn;
customerField.XPath = financeColumn;
customerField.RelatedField = financeColumn;

```
customerField.Update();
```

▼
Commit();
Update();
SetCustomProperty();

QUESTION 60
Customers report that upon creation of the Payment Confirmation document, they do not receive a

confirmation message. You need to ensure that customers receive confirmation messages. What should you do?

A. Ensure that the user has the correct permissions to start a workflow.
B. Ensure that the Payment Confirmation content type is deployed.
C. Ensure that the user is assigned to the Wholesale role.
D. Ensure that a workflow is associated with the document content type.

Answer: D

QUESTION 61
You need to set the appropriate permission levels. A variable named customRole references Wholesale. Which code segment should you add at line UA09?

A. `customRole.BasePermissions = _permissions | SPBasePermissions.ViewFormPages;`
B. `customRole.BasePermissions = _permissions | SPBasePermissions.ViewPages;`
C. `customRole.BasePermissions                =                SPBasePermissions.EmptyMask SPBasePermissions.ViewPages;`
D. `customRole.BasePermissions = SPBasePermissions.ViewPages;`

Answer: B
Explanation:
http://msdn.microsoft.com/en-us/library/microsoft.sharepoint.spbasepermissions.aspx

QUESTION 62
You must upgrade the existing version of the application to a newer version. Which two actions should you perform? (Each correct answer presents part of the solution. Choose all that apply.)

A. Add the following code segment at line CX11:
    `<VersionRangeBeginVersion="1.0" EndVersion="2.e">`
B. Add the following code segment at CX13:
    `<VersionRangeBeginVersion-"1.0.0.0"EndVersion-"2.0.0.0">`
C. Use Microsoft Visual Studio to change the feature version to 1.5.0.0.
D. Use Microsoft Visual Studio to change the feature version to 1.5.
E. Add the following code segment at line CX11:
    `<VersionRangeBeginVersion-"1.0.0.0"EndVersion-"2.0.0.0">`

Answer: BC
Explanation:
B: VersionRange Element specifies a range of previous versions of the Feature to which the upgrade actions should apply.
- BeginVersion: Specifies the earliest version number to which the child upgrade elements will apply, in the format n.n.n.n, where each n can be up to four digits.
- EndVersion: Specifies the earliest version number to which the upgrade will not apply. The format is n.n.n.n, where each n can be up to four digits.
C: Feature versions in Microsoft SharePoint Foundation are used to trigger Feature upgrade. If you update your Feature version but do not specify any Feature upgrade logic in the Feature.xml file, when the Feature upgrade runs, it simply updates the version number of your Feature. However, if you specify Feature upgrade logic, the upgrade code is executed and the version number is automatically updated as well.

QUESTION 63
Hotspot Question

You need to add code at line UA11 to create the custom role. You have the following code:

```
var customRole = new Target 1();
customRole.Name = "Wholesale";
customRole.Description = "Custom role for Wholesale customers";
Target 2
Target 3
```

Which code segments should you include in Target 1, Target 2 and Target 3 to complete the code?
(To answer, select the appropriate code segment from each drop-down list in the answer area.)

Answer Area

Target 1:
```
SPRoleDefinition
SPRoleAssignment
SPRoleDefinitionCollection
```

Target 2:
```
web.RoleAssignment.Add(customRole);
web.RoleDefinitions.Add(customRole);
web.RoleDefinitionCollection.Add(customRole);
```

Target 3:
```
web.Commit()
web.Update()
web.AddProperty(customRole, _permissions)
```

Answer:

Answer Area

Target 1:
```
SPRoleDefinition
SPRoleAssignment
SPRoleDefinitionCollection
```

Target 2:
```
web.RoleAssignment.Add(customRole);
web.RoleDefinitions.Add(customRole);
web.RoleDefinitionCollection.Add(customRole);
```

Target 3:
```
web.Commit()
web.Update()
web.AddProperty(customRole, _permissions)
```

QUESTION 64
You need to automate the backup of a site collection. What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

A. Back up to a network folder.
B. Set the LockStatus of the site collection to Adding content prevented.
C. Back up to a local folder and then move the backup to a network folder.
D. Use Central Administration to perform the backup.
E. Use Windows PowerShell to perform the backup.

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

QUESTION 65
A server in the SharePoint farm experiences high memory usage. Task Scheduler on the server runs a Windows PowerShell script to perform backups of Wholesale sites. You need to resolve any memory leak issues in the Windows PowerShell script. What should you do? (Each correct answer presents a complete solution. Choose all that apply.)

A. Insert the code segment at line EW04:
   ```
   Start-SPAssignment -Global
   ```
B. Insert the code segment at line EW17:
   ```
   $site.Close()
   ```
C. Insert the code segment at line EW17:
   ```
   Stop-SPAssignment -SemiGlobal
   ```
D. Insert the code segment at line EW17:
   ```
   Stop-SPAssignment -Global
   ```

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

QUESTION 66
Drag and Drop Questions
You need to add code at line UA09 to create the custom role. How should you complete the relevant code? (To answer, select the appropriate code segment from each drop-down list in the answer area.)

```
var customRole =                    ▼  ();

    SPRoleDefinition
    SPRoleAssignment
    SPRoleDefinitionCollection

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

                                    ▼

    web.RoleAssignment.Add(customRole);
    web.RoleDefinitions.Add(customRole);
    web.RoleDefinitionCollection.Add(customRole);

                                    ▼

    web.Commit()
    web.Update()
    web.AddProperty(customRole, _permissions)
```

Answer:

```
var customRole =                    ▼  ();

    SPRoleDefinition
    SPRoleAssignment
    SPRoleDefinitionCollection

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

                                    ▼

    web.RoleAssignment.Add(customRole);
    web.RoleDefinitions.Add(customRole);
    web.RoleDefinitionCollection.Add(customRole);

                                    ▼

    web.Commit()
    web.Update()
    web.AddProperty(customRole, _permissions)
```

QUESTION 67
After deploying a solution, a code-based hotfix becomes available. You need to deploy the hotfix.
What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

A. Use assembly binding redirection in the web application configuration file.
B. Increment the assembly file version of the assembly.
C. Increment the product version of the assembly.
D. Increment the assembly version of the assembly.
E. Use assembly binding redirection in the assembly policy file.

Answer: AD

Explanation:
A. Assembly versions are everywhere in SharePoint -- web.config files, web part definitions, workflow definitions, event receiver bindings -- the list goes on. In each case, the version number is absolutely required so that SharePoint can load the code to run at that time. If you update an assembly's version, you have two choices to ensure your code can still be loaded:
- Find and update every reference to the previous assembly version.
- Use a binding redirect in the relevant .config file (e.g. web.config) to point to the new version of the assembly.
D: Assembly Version: This is the version number used by framework during build and at runtime to locate, link and load the assemblies. When you add reference to any assembly in your project, it is this version number which gets embedded. At runtime, CLR looks for assembly with this version number to load. But remember this version is used along with name, public key token and culture information only if the assemblies are strong-named signed. If assemblies are not strong-named signed, only file names are used for loading.
Incorrect:
Not B: Assembly File Version: This is the version number given to file as in file system. It is displayed by Windows Explorer. Its never used by .NET framework or runtime for referencing.

QUESTION 68
You need to set the appropriate permission levels. A variable named customRole references Wholesale. Which code segment should you add at line UA11?

A. `customRole.BasePermissions = SPBasePermissions.ViewPages;`
B. `customRole.BasePermissions = _permissions | SPBasePermissions.ViewFormPages;`
C. `customRole.BasePermissions           =           SPBasePermissions.EmptyMask           | SPBasePermissions.ViewPages;`
D. `customRole.BasePermissions = _permissions | SPBasePermissions.ViewPages;`

Answer: D
Explanation:
Incorrect:
Not A, C: The previous line, UA10, is: _permissions = this.GetExistingPermissions(); We should add this permission and the ViewPages permission.
Not B: ViewFormPagesView forms, views, and application pages, and enumerate lists.
https://msdn.microsoft.com/en-us/library/microsoft.sharepoint.spbasepermissions.aspx

Case Study 4 - Litware Inc. (QUESTION 69 - QUESTION 82)
Background
You are a SharePoint developer working for Litware Inc., a large bicycle manufacturing company. Litware runs an intranet that is based on SharePoint Server 2010, side-by-side a collaboration space for various departments. The IT department for Litware is migrating a SharePoint 2010 environment to a new SharePoint 2013 farm. Some collaboration site collections are already migrated, including a Marketing site collection.
Business Requirements
Intranet
Litware is redefining its brand identity. It is essential that the new intranet supports a wide variety of mobile devices, platforms, and browsers. Some of the content must be migrated from the old intranet during the implementation. The redesigned intranet must be extensible. The solution must be designed with the changes in the underlying technology in mind. A marketing company named Graphic Design Institute provides documents and guidelines for the new design for Litware's intranet.
Collaboration
Litware has the following collaboration requirements:

- The collaboration space must include a start page containing information about site owners, contact data, and statistics on site usage. This information must be available for each collaboration space, directly after its creation.
- The project must be delivered in multiple phases.
- The solution must support changes and updates on the structure and functionality of the collaboration spaces.

Marketing collaboration space

Auditors must be able to create reports about the documents the Marketing team produces. Initial reports should show document distribution over projects and information about the most active documents, the top inactive documents, and the most active users. Additional reports will be added over time.

Technical Requirements

Publishing Design for the Intranet

Litware will use the following web application for the intranet: https://intranet.litwareinc.com. The publishing site design is delivered as a set of HTML files (litwarepublishing.html), CSS (litwarepublishing.css), and image files from the marketing company. A design package must be created for easier deployment over various platforms. During the creation and application of the design package to the publishing site, SharePoint 2013 out-of-the-box capabilities must be used as much as possible to ensure simple design changes and to simplify the upgrade procedures. The publishing site must support rendering on a number of devices, starting with Windows Phone. Apart from being deployed on all existing publishing sites, the design package must be automatically applied each time a publishing site is created. A search box must be available on all publishing sites.

Collaboration

Litware will use two additional web applications for the collaboration:
- Collaboration 1: https://collab1.litwareinc.com
- Collaboration 2: https://collab2.litwareinc.com

Most of the features contained within the Team Site template are sufficient; however, a few additions to the template must be made to support the business requirements. In order to achieve this and ensure maximum portability, a web template based on the Team Site definition must be created. A three-state workflow must be used to manage business processes. A customized default home page must be deployed by using a site feature.

Feature IDs:
- Three-state workflow: FDE5D850-671E-4143-950A-87B473922DC7
- Litware Web Artifacts: DBF80SAB-03D9-43DC-9154-52D6AC54689F

The project must be implemented in phases, so a solution must be developed to support upgrade procedures. As soon as the package containing the web template Litware.Intranet.Templates.wsp is deployed, the Litware Team Site template must be available for use in all site collections. In order to make the solution as extensible as possible, all core functionality should be moved to the separate package Litware.Intranet.Core.wsp. Deployment of the package containing the Litware web templates Litware.Intranet.Templates.wsp must be prevented if the core package is not deployed in order to prevent deployment errors and eventually damage on the site structure itself. Litware.Intranet.Templates contains two features:
- The LitwareWebTemplateFeature feature contains the Litware Team Site web template. Templates with this title must be available in the group Litware in the template selection.
- The LitwareWebArtifacts hidden feature contains code required to run after the provisioning is completed.

The LitwareWebArtifacts feature can be activated only if the LitwareWebTemplateFeature feature is activated as well.

Marketing site collection

An existing marketing collaboration site located in a web application named Collaboration 1 is located at https://collabl.litwareinc.com/sites/marketing. Collaboration 1 contains a document library with approximately 9000 documents for approximately 200 projects. The largest project

contains 120 files. Documents are assigned to appropriate projects by using the Projects field. The farm uses the default throttle settings. Users report that they cannot sort documents in the marketing collaboration site. Auditors have access to the page that provides statistics on Marketing documents. This page contains a report on document distribution over projects and information about the most active documents, the top inactive documents, and the most active users. Processing the queries can result in working with huge result sets. You must ensure that the information on this page is always available and that the queries are not throttled. The relevant code segment is available in the code sections area (MarketingAudit.ascx.es).

Application Structure

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

Element.xml file from Litware.Intranet.

Templates.wsp:

```
PB01  <?xml version="1.0" encoding="utf-8"?>
PB02  <Elements xmlns="http://schemas.microsoft.com/sharepoint/">
PB03    <PropertyBag ParentType="Web">
PB04      <Property Name="litware.teamsite.wt_ID"
PB05              Type="string" Value="WTLitwareTeamSite" />
PB06    </PropertyBag>
PB07  </Elements>
```

MarketingAudit.ascx.es

```
MA01  protected override void RenderContents(System.Web.UI.HtmlTextWriter writer)
MA02  {
MA03    SPWeb spWeb = SPContext.Current.Web;
MA04    SPList spList = spWeb.Lists["Documents"];
MA05    SPUser spUser = SPContext.Current.Web.CurrentUser;
MA06    SPQuery spQuery = new SPQuery();
MA07
MA08
MA09
MA10    if (spUser.IsSiteAdmin || spUser.IsSiteAuditor)
MA11    {
MA12      ...
MA13    }
MA14    else
MA15    {
MA16      writer.Write("<p> You do not have enough privileges to run this report.
       Please contact your system administrator. </p>");
MA17    }
MA18
MA19    base.RenderContents(writer);
MA20  }
```

QUESTION 69
You need to create a design package for the publishing sites. What should you do?

A. Use SharePoint Designer to create master pages and a design package.
B. Use Visual Studio 2012 to create master pages and generate a design package.
C. Use display templates.
D. Use Design Manager.

Answer: D
Explanation:
Before you can use Design Manager, you need a design. You can create your own, or use a ready-made website template. A "design" is simply a group of files that implement the visual design of your site, most commonly:
- At least one HTML file that will be converted into a SharePoint master page
- One or more CSS files
- JavaScript files
- Images
- Other supporting files
http://msdn.microsoft.com/en-us/library/jj822363.aspx

QUESTION 70
Drag and Drop Question
You need to create a collaboration template.

```xml
<?xml version="1.0" encoding="utf-8"?>
<Elements xmlns="http://schemas.microsoft.com/sharepoint/">
    <Target 1
    Target 2="STS"
    BaseTemplateID="0"
    BaseConfigurationID="0"
    Target 3="LitwareTeamSite"
    Target 4="Litware Team Site"
    Target 5="Litware"/>
</Elements>
```

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

Code Segments

- Name
- Title
- Template
- TemplateID
- WebTemplate
- DisplayCategory
- BaseTemplateName

Answer Area

Target 1: Code Segment
Target 2: Code Segment
Target 3: Code Segment
Target 4: Code Segment
Target 5: Code Segment

Answer:

Code Segments

Name
Title
Template
TemplateID
WebTemplate
DisplayCategory
BaseTemplateName

Answer Area

Target 1:　WebTemplate

Target 2:　BaseTemplateName

Target 3:　Name

Target 4:　Title

Target 5:　DisplayCategory

QUESTION 71
Drag and Drop Questions
You need to apply the Design Package to all of the required sites. How should you complete the relevant code? (To answer, drag the appropriate code segments to the correct location or locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Answer Area

LitwareIncTemplate#0
OSRV#0
FeatureTemplate
FeatureTemplateStapler
BLANKINTERNET#0
WTLitwareTeamSite
litware.teamsite.wt_ID
FeatureWebTemplateAssociation
FeatureSiteTemplateAssociation

```xml
<?xml version="1.0" encoding="utf-8"?>
<Elements xmlns="http://schemas.microsoft.com/sharepoint/">
  < [          ]
      Id="1af9c070-8e74-4554-aa03-4373a812e5ac"
      TemplateName="[          ]" />
</Elements>
```

Answer:

Answer Area

LitwareIncTemplate#0	
OSRV#0	
FeatureTemplate	
FeatureTemplateStapler	
BLANKINTERNET#0	
WTLitwareTeamSite	
litware.teamsite.wt_ID	
FeatureWebTemplateAssociation	
FeatureSiteTemplateAssociation	

```
<?xml version="1.0" encoding="utf-8"?>
<Elements xmlns="http://schemas.microsoft.com/sharepoint/">
  < FeatureSiteTemplateAssociation
    Id="1af9c070-8e74-4554-aa03-4373a812e5ac"
    TemplateName="  BLANKINTERNET#0           " />
</Elements>
```

QUESTION 72
You implement the dependency changes based on the requirements for the Litware web artifacts feature. When you deploy the Litware.Intranet.Templates.wsp package, you receive an error message. You need to ensure that the package deploys successfully. What should you do?

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

Answer: C
Explanation:
Hidden Features cannot have activation dependencies.
http://msdn.microsoft.com/en-us/library/office/aa543162%28v=office.14%29.aspx

QUESTION 73
Hotspot Question
You need to ensure that users can sort files by using the Projects field. From the List Settings page, which option should you select? (To answer, select the appropriate option in the answer area.)

Columns

A column stores information about each document in the document library. The following columns are currently available in this document library:

Column (click to edit)	Type	Required
Title	Single line of text	
Project	Lookup	

- Create column
- Add from existing site columns
- Column ordering
- Indexed columns

Answer:

Columns

A column stores information about each document in the document library. The following columns are currently available in this document library:

Column (click to edit)	Type	Required
Title	Single line of text	
Project	Lookup	

- Create column
- Add from existing site columns
- Column ordering
- Indexed columns

Explanation:
To improve the performance of a large list or library, you can index a column. Then you can use the indexed column to filter new or existing views of the list or library. An indexed column is ordered.
Incorrect:
Column ordering is how the columns are ordered horizontally not how the records are ordered.

QUESTION 74
Hotspot Question
You need to scope the feature containing the Litware Team Site template. In the Feature Designer tool in Visual Studio 2012, which scope option should you select? (To answer, select the appropriate scope from the drop-down list in the answer area.)

Design   Manifest

Title: Litware Web Template

Description:

Scope: [▼]
               ┌────────────────┐
               │ Farm   │
Items in the Solu│ Site   │   Items in the Feature:
               │ Web   │
               │ WebApplication │
               └────────────────┘

┌─────────────────────────────┐   ┌─────────────────────────────┐
│ 📄 WebTemplatePrope...   │   │ 📄 LitwareTeamSite (Lit... │
│   Element   │   │   Element   │
│   │   │   │
│ ▷ Files   │   │ ▷ Files   │
└─────────────────────────────┘   └─────────────────────────────┘
                              [»]
                              [>]
                              [‹]

Answer:
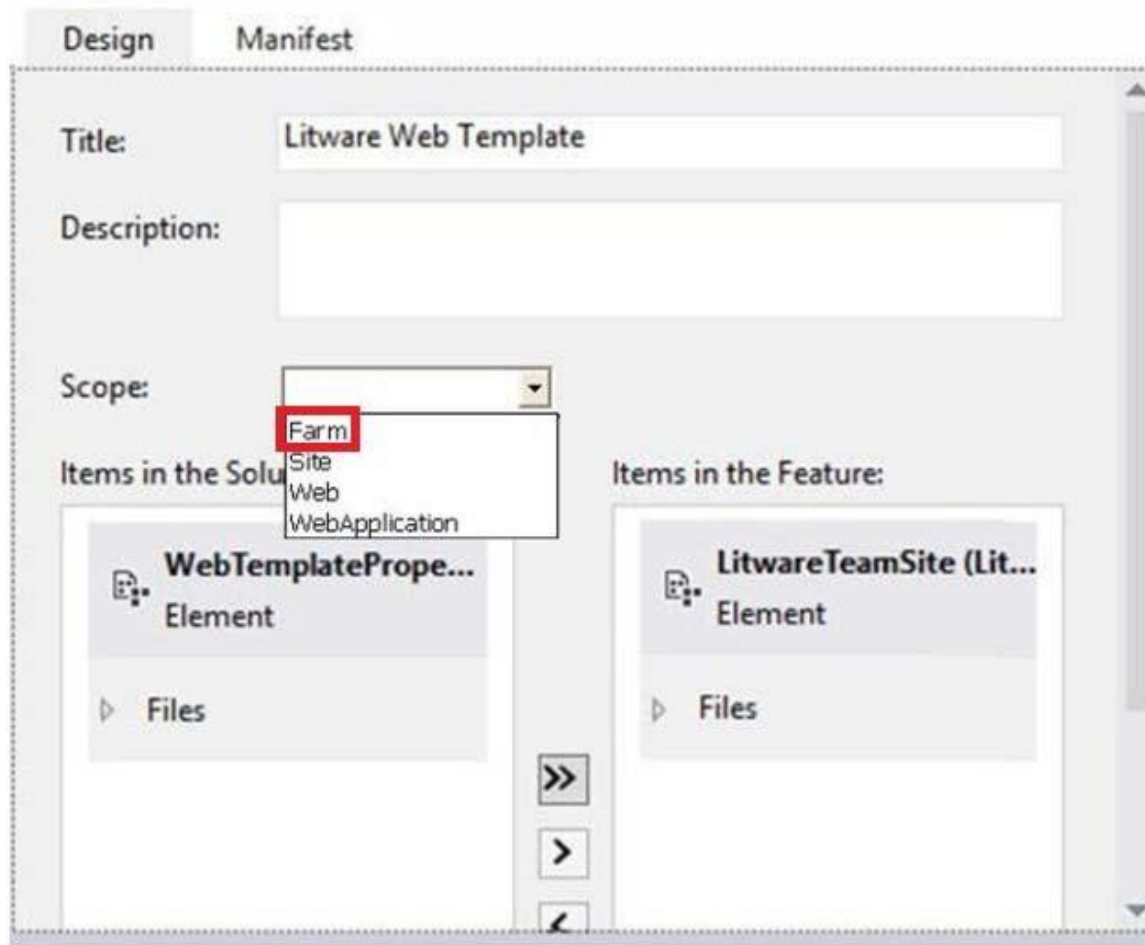
Explanation:
A Farm scoped Feature can be activated at the server farm level.

QUESTION 75
Hotspot Question
You need to configure the publishing site to support the browser requirements. From Site Settings, which option should you select first? (To answer, select the appropriate option in the answer area.)

Site Settings

Users and Permissions
People and groups
Site permissions
Site collection administrators
Site app permissions

Web Designer Galleries
Site columns
Site content types
Web parts
List templates
Master pages and page layouts
Solutions
Themes
Composed looks

Look and Feel
Design Manager
Master page
Page layouts and site templates
Welcome Page
Title, description, and logo
Device Channels
Tree view
Change the look
Import Design Package
Navigation
Image Renditions

Site Actions
Manage site features

Answer:

Site Settings

Users and Permissions
People and groups
Site permissions
Site collection administrators
Site app permissions

Web Designer Galleries
Site columns
Site content types
Web parts
List templates
Master pages and page layouts
Solutions
Themes
Composed looks

Look and Feel
Design Manager
Master page
Page layouts and site templates
Welcome Page
Title, description, and logo
Device Channels
Tree view
Change the look
Import Design Package
Navigation
Image Renditions

Site Actions
Manage site features

QUESTION 76
Drag and Drop Questions
You need to ensure that the features required for the Litware Team Site web template are referenced correctly in the ONET.XML file. How should you complete the relevant code? (To answer, drag the appropriate code segments to the correct location or locations in the answer area.

Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Answer:

QUESTION 77
You need to add the search box to the publishing site. What should you do?

A. Generate a code snippet and paste it into the HTML file.
B. Edit the default.master master page and then add the search box control.
C. Add the Search Web Part to the Welcome page.
D. Edit the page layout.

Answer: A

QUESTION 78
You need to apply updates to only the sites that were created based on the Litware Team Site web template. Which code segment should you use?

```
○A.   String property = spWeb.GetProperty("litware.teamsite.wt_ID").ToString();
      if (property == "WTLitwareTeamSite")
      {
         ...
      }

○B.   String property = spWeb.GetProperty("WTLitwareTeamSite").ToString();
      if (property == "litware.teamsite.wt_ID")
      {
         ...
      }

○C.   if (spWeb.WebTemplate == "WTLitwareTeamSite")
      {
         ...
      }

○D.   if (spWeb.Properties["litware.teamsite.wt_ID"] == "WTLitwareTeamSite")
      {
         ...
      }
```

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

Answer: A

QUESTION 79
Drag and Drop Question
You need to ensure that all of the solutions are deployed in the correct order. You have the following code:

```
<?xml version="1.0" encoding="utf-8"?>
<Solution xmlns="http://schemas.microsoft.com/sharepoint/">
  <Target 1>
    <Target 2
      Target 3="5ddead15-b99b-4948-bda0-ad1fa6970f9f"
      Target 4="Target 5.wsp"/>
  </Target 6>
</Solution>
```

Which code segments should you include in Target 1, Target 2, Target 3, Target 4, Target 5 and Target 6 to complete the code? (To answer, drag the appropriate code segments to the correct targets in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Code Segments

Id

Name

SolutionId

SolutionName

SolutionDependency

SolutionDependencies

ActivationDependency

ActivationDependencies

Litware.Intranet.Core

Litware.Intranet.Templates

Answer Area

Target 1:	Code Segment
Target 2:	Code Segment
Target 3:	Code Segment
Target 4:	Code Segment
Target 5:	Code Segment
Target 6:	Code Segment

Answer:

Code Segments

Id
Name
SolutionId
SolutionName
SolutionDependency
SolutionDependencies
ActivationDependency
ActivationDependencies
Litware.Intranet.Core
Litware.Intranet.Templates

Answer Area

Target 1: `ActivationDependencies`

Target 2: `ActivationDependency`

Target 3: `SolutionId`

Target 4: `SolutionName`

Target 5: `Litware.Intranet.Core`

Target 6: `ActivationDependencies`

QUESTION 80
Hotspot Question
You create a document reporting Web Part for Marketing auditors. You need to configure throttling for the Web Part. You insert the following code in line MA08:

```
spQuery.QuerythrottleMode = Target1
```

Which code segment should you include in Target1 to complete the code? (To answer, select the appropriate option from the drop-down list in the answer area.)

Target 1:

```
SPQueryThrottleOption.Override;
SPQueryThrottleOption.Strict;
SPQueryThrottleOption.Default;
SPQueryThrottleOption.Disable;
```

Answer:

Target 1:

```
SPQueryThrottleOption.Override;
SPQueryThrottleOption.Strict;
SPQueryThrottleOption.Default;
SPQueryThrottleOption.Disable;
```

QUESTION 81
You create a document reporting Web Part for the Marketing team auditors. You need to configure throttling for the Web Part. Which code segment should you insert at line MA08?

A. `spQuery.QueryThrottleMode = SPQueryThrottleOption.Strict;`
B. `spQuery.QueryThrottleMode = SPQueryThrottleOption.Override;`
C. `spQuery.QueryThrottleMode = SPQueryThrottleOption.Disable;`
D. `spQuery.QueryThrottleMode = SPQueryThrottleOption.Default;`

Answer: B

QUESTION 82
Drag and Drop Question
You need to apply the Design Package to all of the required sites. You have the following code:

```xml
<?xml version="1.0" encoding="utf-8"?>
<Elements xmlns="http://schemas.microsoft.com/sharepoint/">
  <Target 1
    Id="1af9c070-8e74-4554-aa03-4373a812e5ac"
    TemplateName="Target 2"/>
</Elements>
```

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

Code Segments

- STS#0
- GLOBAL
- Feature
- FeatureStapler
- BLANKINTERNET#0
- WTLitwareTeamSite
- litware.teamsite.wt_ID
- FeatureWebTemplateAssociation
- FeatureSiteTemplateAssociation

Answer Area

Target 1: Code Segment
Target 2: Code Segment

Answer:

Code Segments

STS#0
GLOBAL
Feature
FeatureStapler
WTLitwareTeamSite
litware.teamsite.wt_ID
FeatureWebTemplateAssociation

Answer Area

Target 1: FeatureSiteTemplateAssociation

Target 2: BLANKINTERNET#0

QUESTION 83
You are the term store manager of a SharePoint environment. You need to make term sets available across the entire farm. You must ensure that users can reuse terms but not edit terms. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

A. Prohibit the use of keywords other than those in a specific term set.
B. Create a global term set.
C. Enable term pinning.
D. Prohibit grid editing in the Datasheet view.
E. Create a local term set.

Answer: AB

QUESTION 84
You are managing a SharePoint farm. You need to collect information about the health of a web application. What should you use?

A. SharePoint Health Analyzer
B. Windows Management Instrumentation (WMI)
C. SharePoint Developer Dashboard
D. timer jobs

Answer: A

QUESTION 85
You are managing a site collection in a SharePoint farm. You need to configure the minimum level of permissions necessary for users to manage lists in the site collection. What permission level should you configure?

A.   Full Control
B.   Create
C.   Design
D.   Contribute

Answer: C

QUESTION 86
A company has a SharePoint environment that consists of two web applications. The first web application is used as the corporate intranet site, and the second web application hosts several custom apps. The custom apps use Microsoft Business Connectivity Services (BCS) Web Parts to retrieve data from external systems. The home page of the second web application displays information from three custom apps and renders slowly. You need to identify the custom app that is causing the slow response times. Which tool should you use?

A.   SharePoint Web Analytics service application
B.   SharePoint audit log reports
C.   SharePoint Health Analyzer
D.   Developer Dashboard

Answer: A

QUESTION 87
You are managing a SharePoint farm. The SharePoint databases are configured to run on a dedicated instance of Microsoft SQL Server 2008 R2 Service Pack 1. You need to optimize query executions. What should you do?

A.   Move the SharePoint databases to a RAID 10 volume.
B.   Move the SharePoint databases to a RAID 5 volume.
C.   Set the maximum degree of parallelism for SQL Server instances to 4.
D.   Set the maximum degree of parallelism for SQL Server instances to 0.

Answer: D

QUESTION 88
A company is planning to upgrade from SharePoint 2010 to SharePoint 2013. You need to find out the web traffic capacity of the SharePoint farm by using a Microsoft Visual Studio Team System project file. Which tool should you use?

A.   Network Monitor
B.   SharePoint Health Analyzer
C.   SharePoint Diagnostic Studio
D.   Load Testing Kit (LTK)

Answer: D

QUESTION 89
You install SharePoint Server in a three-tiered server farm that meets the minimum requirements for SharePoint 2013 and surrounding technologies. The content databases will reside on Fibre Channel drives in a storage area network (SAN). The backup solution will utilize SAN snapshots. You are estimating storage requirements. You plan to migrate 6 TB of current content from file shares to SharePoint. You need to choose the content database size that will optimize performance,

minimize administrative overhead, and minimize the number of content databases. Which content database size should you choose?

A. 100GB
B. 200GB
C. 3TB
D. 6TB

Answer: C

QUESTION 90
You plan to create a workflow design by using Microsoft Visio 2013 and then import the design into SharePoint Designer 2013. You need to ensure that you have repetition capability. Which shape should you use?

A. Stage
B. Assign a Task
C. Step
D. Loop

Answer: D
Explanation:
Loop shapes: Loops are a series of connected shapes that will execute as a loop, returning from the last shape in the series to the first, until a condition is satisfied.
Note:
Workflows in SharePoint Designer 2013 now include the notions of stages, loops, and steps. The SharePoint 2013 Workflow template that is included in Visio 2013 also uses stages, loops, and steps as logical building blocks for creating a workflow.

QUESTION 91
You plan to create a SharePoint Business Process Automation (BPA) project. You need to process items for approval with the least amount of developer effort. Which tool should you use?

A. Remote Event Receiver
B. Out-of-the-box workflow
C. SharePoint Designer workflow
D. Work Item Timer Job

Answer: B
Explanation:
Workflows in SharePoint 2013 allow you to model and automate business processes. These business processes can be as simple as a document approval process with a single approver (shown in example below), as complex as customer-facing product catalog using web service calls and database support, or as formidable as virtually any structured business process, full of conditions, loops, user inputs, tasks, and custom actions.

QUESTION 92
You must select an app model to deploy apps to an Office 365 small business tenant. The business logic of the apps is located in a remote web application. What should you do?

A. Create a SharePoint-hosted app. Implement the business logic by using JavaScript.
B. Develop provider-hosted apps and integrate data sources with the business logic by using OData.

C. Deploy the business logic to the host web by using a Full Trust SharePoint solution.
D. Develop an OData service provider infrastructure and publish the provider to the _layouts directory.

Answer: B
Explanation:
In the real exam had autohosted + oData and (instead of provider hosted and oData).

QUESTION 93
A company has a SharePoint farm that has the following configuration:
- SPWFE1 and SPWFE2 are configured as front-end web servers.
- SPAPP1 and SPAPP2 are configured as application servers.
- New servers will be added to the farm.
You implement a solution that contains a custom navigation provider. You need to register a custom navigation provider by using the least amount of administrative effort. What should you do?

A. Create a web.solutionname.xml file in the \CONFIG directory and run the copyappbincontent:Stsadm command.
B. Edit the ApplicationHost.config file on each SharePoint server.
C. Edit the web.config file for the web application on all SharePoint servers.
D. Use the SPWebConfigModification class.

Answer: D
Explanation:
In Microsoft SharePoint Foundation, one way to modify web.config settings is to use the SPWebConfigModification class of the Microsoft.SharePoint.Administration namespace, which allows you to dynamically register entities. These modifications are persisted in the configuration database where they function as a kind of virtual web.config that effectively serves as the final layer of the .config file stack for the SharePoint Foundation web application. The changes become effective when the SPWebService.ApplyWebConfigModifications method is called.

QUESTION 94
Adventure Works uses SharePoint to store product and order information. Product managers visit the Products list to see the status of each product. They request a feature that will allow them to easily see the recent and old product orders without opening the Products list. The products orders page is located at /sitepages/productorders.aspx, and the product order history page is located at /sitespages/productordershistory.aspx. Both pages require a query string parameter named ProductID. You need to add custom actions to the Products list by using the least amount of administrative effort. What should you do?

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

Answer: C

QUESTION 95
A SharePoint farm has a very large search index. Users report that search results are too broad.
You need to ensure that properties can be used to refine search results. Which two options should

you configure? (Each correct answer presents part of the solution. Choose two.)

A. Searchable
B. Queryable
C. Complete Matching
D. Retrievable
E. Refinable
F. Sortable

Answer: BD
Explanation:
B, D: The search index consists of a set of files in folders on a server. The content processing component processes crawled items, uses the search schema to map crawled properties to managed properties, and translates the managed properties into a format that is written to the search index. In addition to various full-text indexes, there are separate indexes of the managed properties that are marked as retrievable and those that are marked as queryable.
Note:
* Queryable: Enables querying against the specific managed property. The managed property name must be included in the query, either specified in the query itself or included in the query programmatically.
* Retrievable: Enables the content of this managed property to be returned in search results. Enable this setting for managed properties that are relevant to present in search results.
* Settings on the managed properties determine how content is saved in the search index.
Reference: Overview of the search schema in SharePoint Server 2013

QUESTION 96
You are managing a SharePoint farm in an Active Directory Domain Services (AD DS) forest. The forest contains two domains named americas.contoso.com and europe.contoso.com. A single SharePoint farm is located in the americas.contoso.com domain and uses Kerberos authentication. Users in the europe.contoso.com domain cannot access the Excel Services application in the americas.contoso.com domain when using an external data source. You need to ensure that users in the europe.contoso.com domain can use the Excel Services application with external data sources. What should you do?

A. Deploy a SharePoint farm in the europe.contoso.com domain.
B. Configure Kerberos constrained delegation.
C. Configure basic Kerberos delegation.
D. Configure anonymous access in the SharePoint farm.

Answer: A

QUESTION 97
A company's SharePoint environment contains three web applications. The company must record the following information for each document in any of the three web applications:
- The date and time at which the document was last reviewed.
- Additional custom date and time information as requirements are identified.
You have the following requirements:
- Ensure that the current information is available when searching content and for refining search results.
- Ensure that the additional custom date and time information can be assigned to content in all web applications.
- Ensure that SharePoint users who are not farm administrators can record

additional date and time information as required.
You need to meet the requirements. What should you do?

A. Create a column of data type Date and Time in a document library in each site collection.
B. In Central Administration, create a term set with a term of data type Date and Time.
C. Create a content type that uses a custom field of data type Date and Time in each site collection.
D. Create a site column of data type Date and Time in each site collection.

Answer: B

QUESTION 98
You are managing a SharePoint farm. The SharePoint databases are configured to run on a dedicated instance of Microsoft SQL Server 2008 R2 Service Pack 1. You need to optimize query executions. What should you do?

A. Set the maximum degree of parallelism for SQL Server instances to 4.
B. Set the maximum degree of parallelism for SQL Server instances to 1.
C. Move the master database to a RAID 5 volume.
D. Set the maximum degree of parallelism for SQL Server instances to 32.

Answer: B
Explanation:
The read performance will double with a RAID 10 volume.
Incorrect:
Not A, D: The master database records all the system-level information for a SQL Server system. This includes instance-wide metadata such as logon accounts, endpoints, linked servers, and system configuration settings.
Not C: This is already the default settings. By default, the Max Degree Of Parallelism setting has a value of 0, which means that the maximum number of processors used for parallel processing is controlled automatically. Essentially, SQL Server uses the actual number of available processors, depending on the workload. To limit the number of processors used for parallel processing to a set amount (up to the maximum supported by SQL Server), change the Max Degree Of Parallelism setting to a value greater than 1. A value of 1 tells SQL Server not to use parallel processing.

QUESTION 99
Drag and Drop Question
You have a large list that contains more than 5,000 list items. You need to iterate through the list by using the Content Iterator to avoid getting an exception. You have the following code:

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

Which code segments should you include in Target 1, Target 2, Target 3, Target 4, Target 5 and Target 6 to complete the code? (To answer, drag the appropriate code segments to the correct location or locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Code Segments

query1	
SPList	
SPListItem	
SPContext	
ContentIterator	
ProcessListItems	

Answer Area

Target 1:	Code Segment
Target 2:	Code Segment
Target 3:	Code Segment
Target 4:	Code Segment
Target 5:	Code Segment
Target 6:	Code Segment

Answer:

Code Segments

query1
SPList
SPListItem
SPContext
ContentIterator
ProcessListItems

Answer Area

Target 1:	query1
Target 2:	ContentIterator
Target 3:	ContentIterator
Target 4:	query1
Target 5:	SPContext
Target 6:	ProcessListItems

QUESTION 100
Drag and Drop Question
You develop a SharePoint app to access data contained in a hosted SharePoint site. You need to authorize the app to access the list items in a custom list on the host website. You have the following code:

```
Target 1.TrustAllCertificates();
string Target 2 =
 Target 3.GetContextTokenFromRequest(Request);
if (contextTokenStr != null)
{
   contextToken = Target 4.ReadAndValidateContextToken
    (Target 5 , Request.Url.Authority);
   sharepointUrl = new Uri(Request.QueryString["SPHostUrl"]);
   accessToken = TokenHelper.Target 6
    (contextToken,sharepointUrl.Authority).AccessToken;
   Button1.CommandArgument = accessToken;
}
```

Which code segments should you include in Target 1, Target 2, Target 3, Target 4, Target 5 and Target 6 to complete the code? (To answer, drag the appropriate code segments to the correct location or locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Code Segments

- ServiceHost
- SecurityTokenContext+
- TokenHelper
- GetAccessToken
- contextTokenStr

Answer Area

Target 1:	Code Segment
Target 2:	Code Segment
Target 3:	Code Segment
Target 4:	Code Segment
Target 5:	Code Segment
Target 6:	Code Segment

Answer:

Code Segments

ServiceHost

SecurityTokenContext

TokenHelper

GetAccessToken

contextTokenStr

Answer Area

Target 1: TokenHelper

Target 2: contextTokenStr

Target 3: TokenHelper

Target 4: TokenHelper

Target 5: contextTokenStr

Target 6: GetAccessToken

QUESTION 101
The Contoso SharePoint on-premise intranet portal stores content in 50 site collections. Contoso must display all content tagged with a metadata term on the main page of the portal. You need to display all documents with the metadata term without using any custom code. Which technology should you use?

A. Content Query Web Part (CQWP)
B. Content Search Web Part (CSWP)
C. TaxonomySession
D. CamlQuery

Answer: B
Explanation:
CSWP can be configured to "see" items anywhere in SharePoint.
Incorrect:
Not A: CQWP and related SPSiteDataQuery can only search within the current site collection.
Not C: For TaxonomySession you would have to write code.
Not D: The CamlQuery class just specifies a query on a list.

QUESTION 102
You create a cloud-hosted SharePoint app. You must make the app available in the SharePoint Store for customers to install on their host webs. You need to keep the style and navigation of the app the same as the host web of the app after it is installed by any customer. What should you do?

A. Use an app template and an app.master master file for branding.
B. Add a reference to SP.UI.Controls.js on the host web.
   Pass the AppUrl parameter to the host web.
   Apply branding to the host web.
C. Copy the CSS file from the app to the host web.
   Run the Chrome control to convert the CSS file to the host web format.
   Apply the styles contained in the CSS file to the host web.
D. Add a reference to the SP.UI.Controls.js file located in the new /Jayouts/15 directory.
   Pass the HostUrl parameter to the start page of the app.
   Use the Chrome control in the HTML page in a declarative manner.

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

QUESTION 103
You prepare an on-premise farm to support the creation of SharePoint apps. You need to create an instance of a service application before building apps. Which service application should you create?

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

Answer: B

QUESTION 104
A company uses SharePoint team sites for their projects, which last for a month. At the end of every month the project site must be archived and moved to a backup web application. The company plans to create a timer job. You need to write custom code that will move the site from the production web application to the archived web application. Which method of the timer job should you override?

A. RunNow
B. Execute
C. Update
D. Provision

Answer: B
Explanation:
Execute. Executes the job definition on the local machine and is intended to be used only by the timer service.
Incorrect:
Not A: RunNow. Schedules the job for immediate execution.
Not C: SPJobDefinition.Update method. Causes the job definition to save its state and propagate changes to all machines in the farm.
Not D: Provision. Makes the changes to the local server that are needed before the object can be used.

QUESTION 105
Drag and Drop Question
A company develops a workflow by using SharePoint Workflow Manager. The Auditing department has a SQL Server database that contains a list of all available software. The list contains the names of the users who have permission to use the software. The data is available through a Windows Communication Foundation (WCF) service that uses OData and is deployed internally. The IT department plans to implement a help desk solution on the IT site collection that involves the creation of workflows. A user must request approval to use software that is not available internally

from three different managers. The workflow should be approved if two of the three managers approve the request. The workflow has an Evaluation and an Approval stage. You need to develop the workflow by using SharePoint Designer. Which five actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)

Actions

Create a stage for every phase of the workflow.

In the **Transition to Stage** section of the Approval stage, insert the **Go to a Stage** action and then set the **Go to** value to **End of Workflow.**

In the Evaluation stage, insert the **Call Http Web Service** condition and the **Get an Item from a Dictionary** condition.

In the **Transition to Stage** section of the Evaluation stage, insert **Go to a stage** action and set **a stage** value to **End of Workflow** in the else clause.

In the Approval stage, insert the **Start a Task Process** and add the names of the participating managers. Set the **Completion Criteria** property to **Wait of percentage of a response.**

Answer Area

Answer:

Actions

Create a stage for every phase of the workflow.

In the **Transition to Stage** section of the Approval stage, insert the **Go to a Stage** action and then set the **Go to** value to **End of Workflow.**

In the Evaluation stage, insert the **Call Http Web Service** condition and the **Get an Item from a Dictionary** condition.

In the **Transition to Stage** section of the Evaluation stage, insert **Go to a stage** action and set **a stage** value to **End of Workflow** in the else clause.

In the Approval stage, insert the **Start a Task Process** and add the names of the participating managers. Set the **Completion Criteria** property to **Wait of percentage of a response.**

Answer Area

Create a stage for every phase of the workflow.

In the Evaluation stage, insert the **Call Http Web Service** condition and the **Get an Item from a Dictionary** condition.

In the **Transition to Stage** section of the Evaluation stage, insert **Go to a stage** action and set **a stage** value to **End of Workflow** in the else clause.

In the Approval stage, insert the **Start a Task Process** and add the names of the participating managers. Set the **Completion Criteria** property to **Wait of percentage of a response.**

In the **Transition to Stage** section of the Approval stage, insert the **Go to a Stage** action and then set the **Go to** value to **End of Workflow.**

QUESTION 106
You plan to create a SharePoint Business Process Automation (BPA) project. You need to process items in queues on a configurable schedule. Which tool should you use?

A.   Remote Event Receiver
B.   Work Item Timer Job

C. Out-of-the-box workflow
D. SharePoint Designer workflow

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

QUESTION 107
Drag and Drop Question
You plan to create a search-driven navigation that supports the Cross-site Publishing Feature. Which four actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)

Actions
Insert a Search Box Web Part on the page.
Insert a Content Search Web Part on the page.
Insert a Search Result Web Part on the page.
Select the **Change query** button.
Build and save the query.
Select the **Edit Web Part** link.

Answer Area

Answer:

Actions
Insert a Search Box Web Part on the page.
Insert a Content Search Web Part on the page.
Insert a Search Result Web Part on the page.
Select the **Change query** button.
Build and save the query.
Select the **Edit Web Part** link.

Answer Area
Insert a Content Search Web Part on the page.
Select the **Edit Web Part** link.
Build and save the query.
Insert a Search Result Web Part on the page.

Explanation:
Box 1: Add a Content Search Web Part to a page.

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

QUESTION 108
Hotspot Question
A company hosts its public website by using a SharePoint publishing site template. The website allows customers to browse and buy company products. The website user interface is optimized to support multiple browsers, smartphones and tablets. You need to enable support for a new tablet type. Which Design Manager option should you use? (To answer, select the appropriate link in the answer area.)
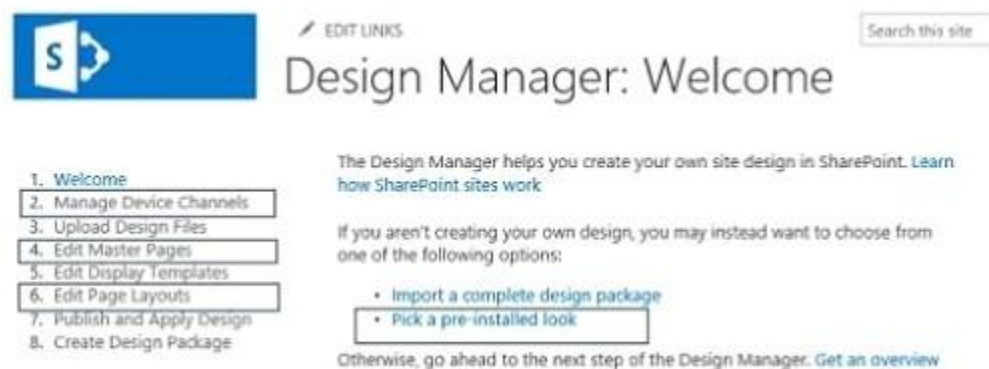
Answer Area

Answer:

Answer Area
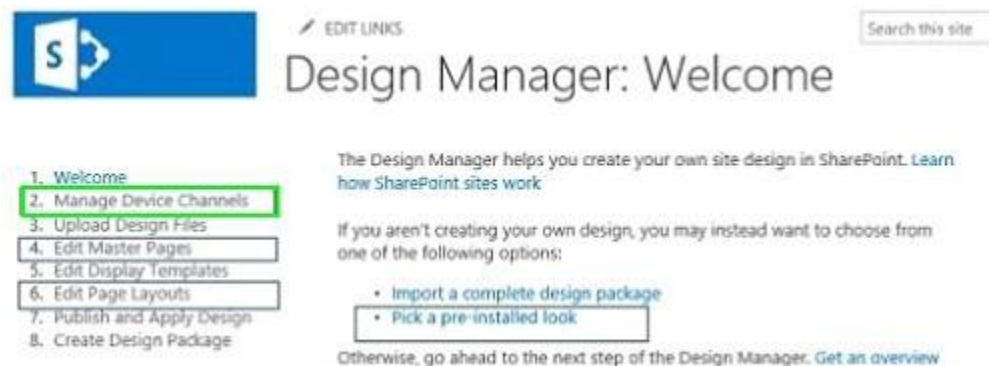
Explanation:

Manage Device Channels. The device channel feature is ideal for more complex SharePoint sites where you create a single site and author content for that site, but map the content to use different master pages and style sheets that are specific to a device or group of devices. By using the device channel feature you can choose to show different content to different device channels using the same page and page layout.
Reference: Configure a SharePoint site for mobile devices

QUESTION 109
Adventure Works uses a SharePoint publishing site for an external website at www.adventureworks.com. The user interface is implemented by using HTML5, CSS 3, and JavaScript. You need to ensure that the site designers have an efficient way to create and modify the JavaScript files. What should you do?

A. Open the site in SharePoint Designer.
    From All Files, double-click the _cts folder and then select the MasterPages folder.
    Create a folder.
    Modify the JavaScript files by using Microsoft Notepad.
B. Copy all the JavaScript files to a document library and modify them directly by using Microsoft Notepad.
C. Open the site in SharePoint Designer.
    From Master Pages select the JavaScript files to modify them.
D. Set up a mapped network drive in Design Manager.
    Open the mapped drive and create a folder.
    Modify the JavaScript files by using Microsoft Notepad.

Answer: C
Explanation:
Master Page -- Use SharePoint Designer to add code to a master page when you want to code to be available on every page in a site. You can add the JavaScript inside of <SCRIPT> tags or link to a file that contains the JavaScript. Typically add your CSS just before the </HEAD> section and your JavaScript just before the </BODY> tag. But on the exam I had another answer: In SharePoint Designer open _catalogs, then master pages, create new folder and use SPD to modify javascript files. I went with this option because I think that the key word here is using SPD to modify files, not Notepad.

QUESTION 110
Drag and Drop Question
Contoso. Ltd. uses SharePoint for document sharing, task management, and workflows. Contoso, Ltd has a SharePoint portal with a URL of intranet.contoso.com. The portal has 5,000 subsites. It is used by 50,000 users. You develop a custom web level feature that allows users to see their tasks from every website on the portal. You need to use a Windows PowerShell script to enable the web level feature in the subsites without adversely impacting the performance of the server. You have the following script:

```
Target 1
foreach($site in ($siteScope | Get-SPSite "http://intranet.contoso.com"))
{
    Target 2
    $web = $webScope | Get-SPWeb $site.RootWeb.Url
    Target 3
}
Target 4
```

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

Code Segments

$siteScope = Get-SPSiteAdministration

$webScope = Start-SPAssignment

$webScope = End-SPAssignment

Stop-SPAssignment $webScope

$siteScope=End-SPAssignment

Stop-SPAssignment $siteScope

Stop-SPServices $siteScope

$siteScope = Start-SPAssignment

Answer Area

Target 1:	Code Segment
Target 2:	Code Segment
Target 3:	Code Segment
Target 4:	Code Segment

Answer:

Code Segments

$siteScope = Get-SPSiteAdministration

$webScope = Start-SPAssignment

$webScope = End-SPAssignment

Stop-SPAssignment $webScope

$siteScope=End-SPAssignment

Stop-SPAssignment $siteScope

Stop-SPServices $siteScope

$siteScope = Start-SPAssignment

Answer Area

Target 1:	$siteScope = Start-SPAssignment
Target 2:	$webScope = Start-SPAssignment
Target 3:	Stop-SPAssignment $webScope
Target 4:	Stop-SPAssignment $siteScope

QUESTION 111
Drag and Drop Question
Northwind Traders uses Microsoft Office 365 to share customer information between internal and external users. Northwind Traders plans to allow external sales managers to manage customers on the Office 365 site by providing a custom SharePoint autohosted app. The custom web application will be hosted on Microsoft Azure. You develop the autohosted app that allows all users on Office 365 to be able to read and write data in a SharePoint list from an ASP.NET web application. You need to ensure that the custom web application will authenticate itself, get access tokens from the Microsoft Azure Access Control Service (ACS), and read to and write from a SharePoint list. You have the following code:

```
SharePointContextToken contextToken; string accessToken; Uri sharepointUrl;
protected void Page_Load(object sender, EventArgs e)
{
  string contextTokenString = Target 1
  if (contextTokenString != null)
  {
    contextToken = Target 2
    sharepointUrl = GetModifiedAppWebUrl();
    accessToken = TokenHelper.GetAccessToken
      (contextToken, sharepointUrl.Authority).AccessToken;
    Button1.CommandArgument = accessToken;
  }
}
protected void Button1_Click(object sender, EventArgs e)
{
  string accessToken = ((Button)sender).CommandArgument;
  if(IsPostBack)
  {
    sharepointUrl = GetModifiedAppWebUrl();
    }
    using (var clientcontext = Target 3
  {
    Microsoft.SharePoint.Client.List Customers = clientcontext.
     Web.Lists.GetByTitle("Customers");
    //"Code Add New Item to Customers List"
    clientcontext.ExecuteQuery();
    //Bind List Items to Grid
  }
}
private Uri GetModifiedAppUrl()
```

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

Code Segments	Answer Area
TokenHelper.GetContextTokenFromRequest(Request);	Target 1: Code Segment
TokenHelper.GetClientContextWithAuthorizationCode (contextTokenString, Request.Url.Authority);	Target 2: Code Segment
TokenHelper.ReadAndValidateContextToken (contextTokenString, Request.Url.Authority);	Target 3: Code Segment
TokenHelper.GetS2SClientContextWithWindowsIdentity (sharepointUrl,System.Security.Principal.WindowsIdentity. GetCurrent())	
TokenHelper.GetClientContextWithAccessToken (sharepointUrl.ToString(), accessToken))	

Answer:

Code Segments

```
TokenHelper.GetContextTokenFromRequest(Request);
```

```
TokenHelper.GetClientContextWithAuthorizationCode
(contextTokenString, Request.Url.Authority);
```

```
TokenHelper.ReadAndValidateContextToken
(contextTokenString, Request.Url.Authority);
```

```
TokenHelper.GetS2SClientContextWithWindowsIdentity
(sharepointUrl,System.Security.Principal.WindowsIdentity.
GetCurrent())
```

```
TokenHelper.GetClientContextWithAccessToken
(sharepointUrl.ToString(), accessToken))
```

Answer Area

Target 1:
```
TokenHelper.GetContextTokenFromRequest(Request);
```

Target 2:
```
TokenHelper.ReadAndValidateContextToken
(contextTokenString, Request.Url.Authority);
```

Target 3:
```
TokenHelper.GetClientContextWithAccessToken
(sharepointUrl.ToString(), accessToken))
```

QUESTION 112
Drag and Drop Question
A company uses SharePoint and Microsoft Dynamics CRM to manage customers. External users log in to the SharePoint site by using forms-based authentication. The company needs to authenticate users by using a custom claims provider. You have the following requirements:
1. Site administrators must be able to locate users in CRM.
2. Site administrators must be able to select users based on their roles in CRM.
3. Site administrators must be able to confirm that users exist in CRM.
You need to implement the custom claims provider. How should you complete the relevant code? (To answer, drag the appropriate code segments to the correct location or locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Code Segments

```
public override bool SupportsHierarchy
```

```
protected override void FillResolve()
```

```
protected override void FillClaimsForEntity()
```

```
public override bool SupportsEntityInformation
```

```
public override bool SupportsResolve
```

```
protected override void FillSearch()
```

```
internal static string SupportSearchResolve
```

```
protected override void FillHierarchy()
```

```
protected override void FillResolve()
```

```
public override bool SupportsSearch
```

```
protected override void CreateHierarchy()
```

Answer Area

Requirement 1 Property:	Code Segment
Requirement 1 Method:	Code Segment
Requirement 2 Property:	Code Segment
Requirement 2 Method:	Code Segment
Requirement 3 Property:	Code Segment
Requirement 3 Method:	Code Segment

Answer:

Code Segments

```
public override bool SupportsHierarchy

protected override void FillResolve()

protected override void FillClaimsForEntity()

public override bool SupportsEntityInformation

public override bool SupportsResolve

protected override void FillSearch()

internal static string SupportSearchResolve

protected override void FillHierarchy()

protected override void FillResolve()

public override bool SupportsSearch

protected override void CreateHierarchy()
```

Answer Area

|	
Requirement 1 Proper	`public override bool SupportsHierarchy`
Requirement 1 Metho	`protected override void FillHierarchy()`
Requirement 2 Proper	`public override bool SupportsSearch`
Requirement 2 Metho	`protected override void FillSearch()`
Requirement 3 Prope	`public override bool SupportsResolve`
Requirement 3 Meth	`protected override void FillResolve()`

QUESTION 113
Hotspot Question
A web application that listens on port 80 has been created for Internet users to access your company's SharePoint site. The web application uses claims-based authentication. Users report that they are prompted for credentials when they access the site in their browser. You need to enable anonymous access. On the Manage web applications page in Central Administration, which option should you select? (To answer, select the appropriate menu item in the answer area.)
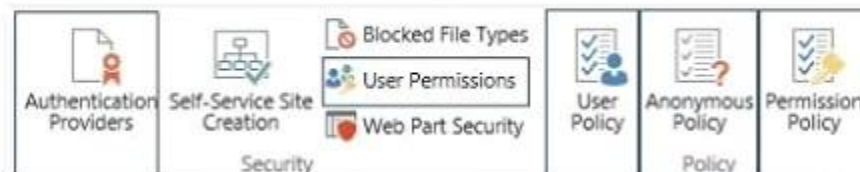
Answer Area

Answer:

Answer Area
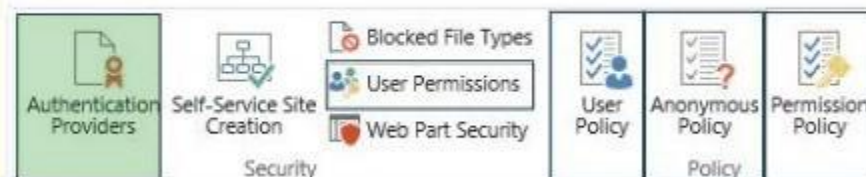
QUESTION 114
Drag and Drop Question
You add a site column for an Enterprise Content Management (ECM) project by using the Site Column Designer in Visual Studio 2012. You need to identify what the designer-generated XML will look like. You have the following code:

```
<?xml version="1.0" encoding="utf-8"?>
<Target 1 xmlns="http://schemas.microsoft.com/sharepoint/">
  <Target 2
    ID="9a904d11-b76d-4dba-a772-67b2383dd86f}"
    Name="SiteColumnB"
    DisplayName="Site Column B"
    Target 3="Text"
    Required="FALSE"
    Group="MySiteColumns">
  </Target 4>
</Target 5>
```

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

XML Elements

- Column
- Elements
- Field
- SiteColumn
- Type

Answer Area

Target 1: XML Element

Target 2: XML Element

Target 3: XML Element

Target 4; XML Element

Target 5: XML Element

Answer:

QUESTION 115
Hotspot Question
A web application that listens on port 80 has been created for Internet users to access your company's SharePoint site. Your company requires anonymous users to authenticate before they post content. You need to change the permissions that are assigned to unauthenticated users. On the Manage web applications page in Central Administration, which option should you select? (To answer, select the appropriate menu item in the answer area.)
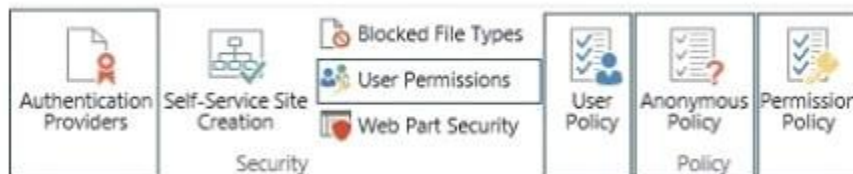
Answer:

Explanation:
For the unauthenticated users use the Anonymous policy.

QUESTION 116
Drag and Drop Question
You need to retrieve data about all the lists in a site by using the REST (Representational State Transfer) API. You have the following code:

```
string siteUrl = "http://server/sites/site";
HttpWebRequest endpointRequest =
  (HttpWebRequest)HttpWebRequest.Create(siteUrl.ToString()

  + Target 1);

endpointRequest.Credentials = new
  NetworkCredential("userid", "password", "domain");

endpointRequest.Method = Target 2;

endpointRequest.Accept = "application/json;odata=verbose";
HttpWebResponse endpointResponse =
(HttpWebResponse)endpointRequest.GetResponse();
```

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

Code Segments

"POST"

"GET"

"/_vti_bin /web/lists"

"/_api/web/AllLists"

"/_api/web/lists"

Answer Area

Target 1:   Code Segment

Target 2:   Code Segment

Answer:

Code Segments

"POST"

"GET"

"/_vti_bin /web/lists"

"/_api/web/AllLists"

"/_api/web/lists"

Answer Area

Target 1:   "/_api/web/lists"

Target 2:   "GET"

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

QUESTION 117
The Contoso SharePoint on-premise intranet portal stores content in 50 site collections. Contoso

wants to display all content tagged with a metadata term on the main page of the portal. You need to display all documents with the metadata term without using any custom code. Which technology should you use?

A. SPQuery with Site Collection set to the portal's main page site collection
B. Content Query Web Part (CQWP)
C. Content Search Web Part (CSWP)
D. SPSiteDataQuery

Answer: C

QUESTION 118
Drag and Drop Question
You create a new Enterprise Content Management (ECM) project. You add a content type to the Visual Studio Project by using the Content Type Designer in Visual Studio 2012. You need to identify what the designer-generated XML will look like? You have the following code:

```xml
<?xml version="1.0" encoding="utf-8"?>
<Target 1 xmlns="http://schemas.microsoft.com/sharepoint/">
    <ContentType ID="0x0100C246DA2BB57D493D916BDD32671C57FA"
        Name="ContentTypeAB"
        Group="my contentTypes"
        Description="ContentTypeAB"
        Inherits="FALSE"
        Version="0">
    <Target 2>
        <Target 3 ID="{8fb95db3-0e69-4232-8827-c5b3c6b3533}"
            DisplayName="Site Column A" Required="TRUE" Name="SiteColumnA"/>
    </Target 4>
    </ContentType>
</Target 5>
```

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

XML Elements
Column
Elements
FieldRef
FieldRefs
SiteColumn

Answer Area
Target 1: XML Element
Target 2: XML Element
Target 3: XML Element
Target 4: XML Element
Target 5: XML Element

Answer:

XML Elements	Answer Area	
Column	Target 1:	Elements
Elements	Target 2:	FieldRefs
FieldRef	Target 3:	FieldRef
FieldRefs	Target 4:	FieldRefs
SiteColumn	Target 5:	Elements

QUESTION 119
Drag and Drop Question
You work on a SharePoint Enterprise Content Management (ECM) project. You need to ensure that all Microsoft Word documents are converted to Portable Document Format (PDF) once they are published and approved. You have the following code:

```
public override void Target 1(SPItemEventProperties properties)
{
  base.Target 2(properties);
  SPListItem spListItem = properties.ListItem;
  SPFile spFile = spListItem.File;
  String spFileExtension = Path.GetExtension(spFile.Name);
  if ((spFileExtension.ToUpper() == ".DOCX") &&
   (spFile.Level == Target 3.Target 4))
  {
    ConversionJob conversionJob =
     new ConversionJob("Word Automation Services Application");
    conversionJob.Name = "PDF Conversion";
    conversionJob.UserToken = properties.Web.CurrentUser.UserToken;
    conversionJob.Settings.OutputSaveBehavior =
      SaveBehavior.AlwaysOverwrite;
    conversionJob.Settings.OutputFormat = SaveFormat.PDF;
    conversionJob.Settings.UpdateFields = true;
    string siteUrl = properties.WebUrl + "/";
    string outputUrl = siteUrl+spFile.Url.Replace(".docx", ".pdf");
    conversionJob.AddFile(siteUrl + spFile.Url, outputUrl);
    conversionJob.Start();
  }
}
```

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

Code Segments

- Approved
- ItemAdded
- ItemUpdated
- Published
- Run();
- SPFileInfo
- SPFileLevel
- Start();

Answer Area

Target 1: Code Segment

Target 2: Code Segment

Target 3: Code Segment

Target 4: Code Segment

Answer:

Code Segments

- Approved
- ItemAdded
- ItemUpdated
- Published
- Run();
- SPFileInfo
- SPFileLevel
- Start();

Answer Area

Target 1: ItemUpdated

Target 2: ItemUpdated

Target 3: SPFileLevel

Target 4: Published

QUESTION 120
Hotspot Question
A company's IT department implements a Help Desk Ticketing system that involves workflow development by using SharePoint Designer and InfoPath. The Help Desk Ticket workflow involves

multiple steps and tasks that have serial approvals of multiple users and groups with custom task email messages. You need to manage task approvals. Which activity should you use? (To answer, select the appropriate action from the list of actions in the answer area.)

Answer Area

Set Workflow Status
Set Workflow Variable
List Actions
　　Check In Item
　　Check Out Item
　　Copy Document
　　Create List Item
　　Delete Item
　　Discard Check Out Item
　　Set Field in Current Item
　　Translate Document
　　Update List Item
　　Wait for Event in List Item
　　Wait for Field Change in Current Item
Task Actions
　　Assign a task
　　Start a task process

Answer:

Answer Area

Set Workflow Status
Set Workflow Variable
List Actions
　　Check In Item
　　Check Out Item
　　Copy Document
　　Create List Item
　　Delete Item
　　Discard Check Out Item
　　Set Field in Current Item
　　Translate Document
　　Update List Item
　　Wait for Event in List Item
　　Wait for Field Change in Current Item
Task Actions
　　Assign a task
　　Start a task process

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

QUESTION 121
You develop a SharePoint app to create an approval workflow for expense reports. The app must collect user input during the workflow. You need to use ASP.NET forms in the workflow. Which form type should you use?

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

Answer: C
Explanation:
When you use "Collect data from user" action, a task is created.

QUESTION 122
You plan to create a workflow design by using Microsoft Visio 2013 and then import the design into SharePoint Designer 2013. You need to ensure that you have branching capability. Which shape should you use?

A. Assign a Task
B. Stage
C. Loop
D. Step

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

QUESTION 123
A user deploys a sandbox solution. The user cannot activate the solution. You need to ensure that the user can activate the solution. What should you do? (Each correct answer presents a complete solution. Choose all that apply.)

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

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

QUESTION 124
You are managing a site collection in a SharePoint farm. You need to configure the minimum level of permissions necessary for users to manage lists in the site collection. What permission level should you configure?

A. View Only
B. Edit
C. Full Control
D. Read

Answer: C
Explanation:
In order to manage a list (e.g. make changes to columns or other list settings), you need Full Control over the list. Alternatively, you need the Manage List right at the Site Collection level.

QUESTION 125

You are managing a SharePoint environment. All SharePoint databases reside on servers that run Microsoft SQL Server 2012. You observe an increase in the consumption of disk space by the SharePoint configuration database. You need to minimize disk space usage. Which recovery model should you set?

A. Transactional
B. Full
C. Bulk-logged
D. Simple

Answer: D

QUESTION 126

A SharePoint environment contains a single web application at http://web01. You create a site collection under the web application. The site collection has the URL http://sharepoint.contoso.com. You need to ensure that the site collection is also accessible at http://intranet.contoso.com. What should you do?

A. Add intranet.contoso.com as an alternate access mapping for the web application.
B. Extend the web application and add intranet.contoso.com to the Intranet Zone.
C. Run the Set-SPSiteUrl Windows PowerShell cmdlet.
D. Run the New-SPSite Windows PowerShell cmdlet.

Answer: C

QUESTION 127

Drag and Drop Question
You administer the SharePoint environment for a company. You create a SharePoint application to manage budgets and expenses. The application requires access to all site collections and resources. You need to package and publish the budget and expenses app. 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
Register the application with Azure Access Control Service.	
Publish the remote app component, and install the app component to SharePoint.	
Register the application with the SharePoint farm's App Management Service.	
Add the certificate serial number to the application's web.config and TokenHelper files.	
Configure the remote web server with a trusted certificate.	

Answer:

Actions	Answer Area
Register the application with Azure Access Control Service.	Register the application with the SharePoint farm's App Management Service.
Publish the remote app component, and install the app component to SharePoint.	Configure the remote web server with a trusted certificate.
Register the application with the SharePoint farm's App Management Service.	Add the certificate serial number to the application's web.config and TokenHelper files.
Add the certificate serial number to the application's web.config and TokenHelper files.	Publish the remote app component, and install the app component to SharePoint.
Configure the remote web server with a trusted certificate.	

QUESTION 128

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