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# Microsoft

## **70-576 PRACTICE EXAM**

**PRO: Designing and Developing Microsoft SharePoint 2010 Applications**

1. You are helping an organization's executive team to design an automated approval process to standardize certain documents.

You have the following requirements:

- The documents must be reviewed and approved by multiple teams in the approval chain.
- .Each reviewer must provide feedback as part of completing a review.
- .Each reviewer must either approve or reject the documents.
- .After review, the document status must be changed; an e-mail must be generated to the document author and the next reviewer in the approval chain; and a task should be created for the next reviewer in the approval chain.

You must design a custom workflow solution for the document approval process on a SharePoint 2010 site.

What should the solution include?

- A. an initiation form to collect the reviewer's feedback and a Simple activity to approve and reject the document
- B. an association form to collect the reviewer's feedback and a Composite activity to support conditional activities such as approval and rejection
- C. a task form to collect the reviewer's feedback and a Composite activity to support conditional activities such as approval and rejection
- D. a task form to collect the reviewer's feedback and a Simple activity to approve and reject the document

**Answer: C**

2. You are designing a SharePoint 2010 feature. The feature includes a feature receiver that executes code on activation and deactivation.

The feature receiver code interacts with a Web service, which could cause errors beyond your control.

You need to ensure that the feature does not activate or deactivate if the Web service causes an error.

Which approach should you recommend?

- A. Wrap your code in a Try-Catch block. Log the error and issue another request to the Web service in the Catch block.
- B. Wrap your code in a Try-Catch block. Log the error and throw an exception in the Catch block.
- C. Wrap your code in a Try-Catch block. Only catch exceptions of type SPException.
- D. Wrap your code in a Try-Finally block. Log any issues your code encounters in the Finally block.

**Answer: B**

3. You are designing a SharePoint 2010 information architecture plan for a client that specifies the mechanics of implementing content type change control.

The requirements for the change control plan specify that:

- Site managers can create site-specific content types based on the content types in the parent site.
- Content types must not be overwritten when changes are made to parent site content types.
- Site managers can change child site content types.

You need to specify a content type change control plan that meets all these requirements.

Which approach should you recommend?

- A. Direct the site manager to explicitly set the read-only property of the content type to True. Direct the site collection manager to make the specified change required in the child site to the content type at the site collection level.
- B. Direct the site manager to explicitly set the read-only property of the content type to True. Perform a push-down operation from the parent site to overwrite the required changes to the read-only content types in all the child sites.
- C. Define the content type as read-only at the child site level. Direct the site manager to explicitly set the read-only property of the content type to False to make changes to the content type. Then change the read-only property to True.
- D. Define the content type as sealed. Direct the site manager to explicitly set the sealed property of the content type to False to make changes to the content type. Then change the sealed property of the content type to True.

**Answer: C**

4. You are designing a SharePoint 2010 application to store 50 GB of digital assets, including audio and video files that are up to 20 MB in size.

You have the following requirements:

- The disk storage system must use standard hard drives and must be configured to optimize read performance.
- .The SharePoint 2010 database uses Microsoft SQL Server Express 2008.
- .The application must leverage standard SharePoint 2010 components to limit the requirement for custom development.

You need to design a storage solution that meets all of these requirements.

Which approach should you recommend?

- A. Enable FILESTREAM storage for a Microsoft SQL Server Express 2008 database on a RAID 0 disk system. Then install and configure remote Binary Large Object (BLOB) storage in SharePoint 2010.
- B. Store the assets directly in Microsoft SQL Server Express 2008 and create multiple content databases on a RAID 0 disk system.
- C. Install and configure support for external BLOB storage for SharePoint 2010 and use the ISPEExternalBinaryProvider interface to manage files on a RAID 0 disk system.
- D. Install and configure support for external BLOB storage for SharePoint 2010 and configure a Microsoft SQL Server Express 2008 database to store BLOBs on a RAID 5 disk system.

**Answer: A**

5. You are designing a SharePoint 2010 application that stores information about each machine in a factory. This information includes an inventory of parts, the machine's maintenance history, and a document library of repair manuals for each machine in Microsoft Word format.

The application must:

- Establish links between the factory machine data, the machine part inventory, the maintenance history, and the repair manuals to allow the display of additional fields from the other lists.
- .Enforce relational integrity between the data to create custom views for various business users.

.Allow nontechnical users to update the individual list data and views, as well as to update the manuals.

.Enforce relationships that allow cascade deletes of items from the machine parts list when items are deleted from the machine list, but prevent data in the machine parts list from being orphaned.

You need to design a data access plan that meets all these requirements and allows all data to be managed within the SharePoint 2010 system.

Which plan should you recommend?

A. Create tables in Microsoft SQL Server for each set of inventories. Create relationships with primary and foreign keys linking the tables. Use Business Connectivity Services (BCS) to connect SharePoint 2010 lists to these tables to manage the data.

B. Create tables in Microsoft SQL Server for each set of inventories. Create relationships with primary and foreign keys linking the tables. Store machine part manuals in a SharePoint document library and use event receivers to synchronize data in the lists and libraries.

C. Use SharePoint 2010 lists and document libraries to store data. Create relationships using lookup fields and relationship joins between the lists and document libraries.

D. Use SharePoint 2010 lists and document libraries to store data. Create a custom workflow to update information in the lists and document libraries.

**Answer: C**

6. You are designing a SharePoint 2010 solution that allows users to enter address information for contacts into a list named Address.

You have the following requirements:

·Ensure that users enter full nine-digit zip codes for the address information.

.Display a custom message indicating that a zip code is invalid if the entered zip code does not match the full nine-digit requirements.

You need to ensure that the application is designed to meet these requirements.

Which approach should you recommend?

A. Create a custom command.

B. Create a Datasheet view on the Address list.

- C. Use the Form Options of the Address list.
- D. Create a formula on the column.

**Answer: D**

7. You are designing a SharePoint 2010 solution that stores employee information in a list named Employees and company information in a list named Company.

Each company has one or more employees.

You need to recommend that a developer add a new column so that a one-to-many relationship is created between the Company list and Employees list.

Which approach should you recommend?

- A. Add an External Data column on the Employees list.
- B. Add a Lookup column on the Employees list.
- C. Add a Managed Metadata column on the Company list.
- D. Add a Lookup column on the Company list.

**Answer: B**

8. You are using Business Connectivity Services to design a SharePoint 2010 application that connects to an external database. The database users have accounts for authentication that are different from their Active Directory accounts.

You have a requirement to allow users to connect to the external database without prompting the user for credentials.

You need to store user credentials and use these credentials when connecting to the external database.

Which approach should you recommend?

- A. Create a target application that uses the Microsoft Single Sign-On Service. Select the Connect with Impersonated Custom Identity option when creating the connection to the database.
- B. Create a target application that uses the Secure Store Service. Select the Connect with Impersonated Custom Identity option when creating the connection to the database.



C. Create a target application that uses the Single Sign-On Service. Select the Connect with User's Identity option when creating the connection to the database.

D. Create a target application that uses the Secure Store Service. Select the Connect with User's Identity option when creating the connection to the database.

**Answer: B**

9. You are designing an external binary large object (BLOB) store provider by implementing the ISPEExternalBinaryProvider interface. The farm has existing sites that contain content. Your implementation has been verified to be working correctly.

You need to ensure that content within existing sites is moved using the external BLOB store provider. You also must ensure that the solution does not require further custom coding.

Which approach should you recommend?

A. Perform a backup and restore on each site.

B. Perform a backup and restore of each content database.

C. Perform a backup and restore on each site collection.

D. Perform a backup and restore of the configuration database.

**Answer: C**

10. You are designing a SharePoint 2010 application that includes a Task list.

You have the following requirements:

- For each task, allow users to specify one of three values for an item named Phase using a drop-down menu.

- Allow contributors to add new values for the Phase item.

You need to design this application without using custom code.

Which approach should you recommend?

A. Create a Multiple lines of text field type on the Task list.

- B. Create a Single line of text field type on the Task list.
- C. Create a Choice field type on the Task list that gets values from a custom list.
- D. Create a Lookup field type on the Task list that gets values from a custom list.

**Answer: D**

11. You are designing an asset management solution using SharePoint 2010.

You need to design a solution that meets the following requirements:

- Binary large objects (BLOBs) cannot be stored in Microsoft SQL Server.
- There can be no custom development or third-party products.

Which approach should you recommend?

- A. Install and configure Remote BLOB Storage and enable the content databases to use Remote BLOB Storage.
- B. Install and configure Remote BLOB Storage and enable the configuration databases to use Remote BLOB Storage.
- C. Install and configure an external BLOB store provider and enable the content databases to use the external BLOB store provider.
- D. Install and configure an external BLOB store provider and enable the configuration databases to use the external BLOB store provider.

**Answer: A**

12. You need to specify the correct artifacts to use in a SharePoint 2010 application for a school district.

The school district's administrator needs to be able to search for student information on an intranet SharePoint 2010 portal. Student information is currently available in another database, which supports an Open Database Connectivity (ODBC) driver.

You need to design the solution to meet the following requirements:

- Provide a user interface to search for a student based on name.



.Enable the administrator to select the correct student name from the search results.

.Provide a student header section that displays the primary student identity information, which will enable the administrator to correlate any new information with the correct student.

.Provide additional data entry pages to add or update additional student information.

Which approach should you recommend?

A. Design HTML Web pages to render the student details. Install these pages under the /templates/\_layouts/1033 folder and load these pages in Web Parts.

B. Design connected Web Parts to share information among search data entry, student header information, and new data entry information Web Parts.

C. Design a user control and load this control in a Web Part to search for a student. Then render the student details in a SharePoint page.

D. Design a Web Part to search for a student. Then render the student record details in a SharePoint page.

**Answer: B**

13. You are designing a SharePoint 2010 site.

You need to design the site to meet all the following requirements:

·Your business requires a consistent structure to manage sales proposal documents across all account teams.

.The sales director must ensure that all sales documents conform to the same template.

.All sales proposals must be reviewed and approved by the sales manager.

.Every site must be created with a document library, a list of the account team members, and the account status.

Which approach should you recommend?

A. Design a site template with a standard list of account team members and a shared document library to hold the proposal documents.

B. Design a proposal content type to store proposal document metadata and a shared document library to

hold the proposal documents.

C. Design a proposal content type to include required metadata information about the proposal documents. Also design a site template with a standard document library and account team members list for consistency across all account teams.

D. Design a content type that uses a Microsoft Word template for proposal documents. The content type includes required metadata. Also design a site template with a customized document library and list for consistency across all account teams.

**Answer: D**

14. You are designing a solution that includes a custom list on a SharePoint 2010 site.

You need to design the solution to meet the following requirements:

- The solution needs to add customized files to the site as part of the list provisioning.
- .The list should only be provisioned in the sites of the site collection where it is specifically needed.
- .The files must no longer remain provisioned in the site if the custom list is removed.

Which approach should you take?

A. Design a custom list. Implement list event receivers to add the custom files to the bin directory of the Web application.

B. Design a custom feature solution. Implement feature event receivers on the Activate action to add files to the site.

C. Design a custom feature solution. Implement feature event receivers on these two actions:

- .Install action to add files
- .Uninstall action to delete the files that were added during installation of the feature

D. Design a custom feature solution. Implement feature event receivers on these two actions:

- .Activate action to add the files
- .Deactivate action to delete the files that were added during activation of the feature

**Answer: D**

15. You are designing a SharePoint 2010 solution for a large sales force.

You have the following requirements:

- Each sales region must have its own site within the solution with lists to track the current sales data of the sales executives.

- These lists must contain information about the status of sales opportunities, the estimated price, the expected close date, and contact information for the potential sale.

- The welcome page for the root site must display a current summary for all regions, including the percentage of sales expected to close within the next month and total expected revenue over time.

You need to design the solution to meet all these requirements.

What approach should you recommend?

A. Create site columns from the Managed Metadata Services feature within Central Administration to specify and display the sales information on the root site.

B. Create an event receiver for each list to copy the list data when an item is inserted into a list on the root site. Create a List View Web Part to display the sales information on the root site.

C. Create a content type for the metadata to be tracked. Use a Content Query Web Part to display the sales information on the root site.

D. Create a custom workflow to manage the list item data and update properties on the Web Part to display the sales information on the root site.

**Answer: C**

16. You are designing a SharePoint 2010 solution to manage statements of work.

You need to design the solution according to the following requirements:

- Store the customer ID, purchase order number, estimated completion date, and other fields associated with specific documents as they are uploaded.

- The information must be created so that it can be set within the Microsoft Word document information panel.

.Programmatically execute a series of tasks, including assigning tasks to validate the information and creating team sites, based on information related to each document.

.These tasks must run to completion, even if the server is rebooted.

Which approach should you recommend?

A. Create a document library for a custom content type that contains site columns for the document information. Develop a SharePoint workflow for the document library to execute the document tasks.

B. Create a document library for a custom content type that contains site columns for the document information. Develop an event receiver for the document library to execute the document tasks.

C. Create a custom list with fields to store the additional items and an attached document. Develop a SharePoint workflow for the custom list to execute the additional tasks.

D. Create a custom list with fields to store the additional items and an attached document. Develop an event receiver for the custom list to execute the additional tasks.

**Answer: A**

17. You are designing a SharePoint 2010 solution.

You need to design the solution to meet the following requirements:

.All sites must have a consistent structure when initially created.

.All sites must include a document library that contains Word documents with searchable properties.

.Site users must be able to generate a spreadsheet detailing the properties of the document library contents.

Which approach should you recommend?

A. Create a feature to create the required site structure programmatically. Create a content type for the document library. Create a custom workflow for the document library to allow users to generate the spreadsheet.

B. Create a feature to create the required site structure programmatically. Use feature stapling to associate the feature with all site definitions. Create a custom action for the standard document library to allow users to generate the spreadsheet.

C. Create a custom site definition for the sites and allow only that site definition to be used. Create a

content type for the document library. Create a custom action for the document library to allow users to generate the spreadsheet.

D. Create a custom site definition for the sites and allow only that site definition to be used. Create a content type for the document library. Create a custom event receiver to allow users to generate the spreadsheet.

**Answer: C**

18. You are designing a SharePoint 2010 application.

You need to ensure that a custom list named Phone Numbers is automatically created and added to the site whenever a new Team Site is created.

Which approach should you recommend?

A. Create a feature that defines a Phone Numbers list template. Then activate the feature on the team site.

B. Create a feature that defines a Phone Numbers list template. Then use feature stapling to associate the feature with the site definition of the team site.

C. Create the custom Phone Numbers ListTemplate element and add the ListTemplate element to the onet.xml file of the team site.

D. Create the custom fields, views, and other specifications for the Phone Numbers list definition and add them to the schema.xml file.

**Answer: B**

19. You are designing a custom SharePoint 2010 solution package. It will include a feature that contains a Web Part, which requires a custom assembly for its functionality.

You need to design the feature based on the following requirements:

- The Web Part must be a partial trust application and support a custom Code Access Security (CAS) policy.

- The solution package must be deployed without the need of farm-level administrator permissions.

Which approach should you recommend?

- A. Create the Web Part feature and deploy the required assembly to the bin directory of only the Web applications that require it. Then delegate administration to the site administrator. Lastly, create a custom CAS policy file and point to it the web.config file of the application.
- B. Create the Web Part feature assembly with a strong name and deploy it using a .wsp file to the \_app\_bin directory of all Web applications where it is needed. Then activate it using delegated administration.
- C. Create an assembly with a strong name and deploy it to the global assembly cache at the farm level. Activate the feature at the site collection level with delegated administration.
- D. Create the Web Part feature as a sandboxed solution.

**Answer: D**

20. A SharePoint 2010 server farm has a custom feature installed that provides specialized business logic for a SharePoint solution package. The solution package is being updated to include additional functionality.

Your job is to specify a deployment method for the updates that will:

- Add the additional application business logic to the solution package.
- Provide the least downtime for the application.
- Automate the application upgrade as much as possible.

You need to update the solution package with additional business logic and meet all these requirements.

Which approach should you recommend?

- A. Create a new feature containing the new business logic. Use the feature upgrade process to deploy the solution package by incrementing the version number of the feature in the Feature.xml file.
- B. Add the new business logic to the existing feature. Use the feature upgrade process to deploy the solution package by incrementing the version number of the feature in the Feature.xml file.
- C. Use Visual Studio 2010 to add the new business logic to the existing code in the .wsp package for the feature. Create two timer jobs - one to retract the current solution package and one to deploy the solution package with the updated feature.
- D. Use the object model to create a custom feature receiver to increment the version property of the



SPFeatureDefinition class. Increment the version number of the current solution in the Feature.xml file.

**Answer: B**

21. An application will be deployed in a SharePoint 2010 server farm that is managed by department-level site collection administrators.

You need to design this application to meet all the following requirements:

- The application must contain a custom Web Part that accesses the object model at the farm level.
- .The application must be available anywhere in the farm as more departments require the functionality.
- .The site collection administrator in each department must be able to activate the application without the help of the farm administrator.
- .The level of access to the SharePoint 2010 object model must be limited.

Which approach should you recommend?

- A. Create the Web Part as part of a feature in a sandboxed solution. Then deploy it with a farm-level scope.
- B. Create the Web Part as part of a feature in a sandboxed solution. Then deploy it by assigning a resource quota at the site collection level.
- C. Create the Web Part as part of a feature. Then deploy it to the bin directory of the Web application of each department. Specify and deploy a Custom Access Security policy defining the security limitations of the Web Part.
- D. Create the Web Part as part of a feature. Then deploy it to the bin directory of the Web application of each department. Delegate authority to modify the security in the Web application web.config file to the site collection administrator of each department.

**Answer: C**

22. You are designing several new custom applications for a SharePoint 2010 farm. One of the current applications contains a Web Part with code that requires substantial CPU and memory resources. The SharePoint farm administrator wants to ensure that new applications containing custom code do not degrade the performance of the Web front-end (WFE) servers when they are deployed to the SharePoint

farm.

You need to enable the administrator to perform the following tasks:

- To configure the applications to run in isolation mode
- To control the resource usage of custom SharePoint applications by assigning the execution load to specified servers and perform load-balancing of the WFE servers
- To limit the resources allotted to specific applications without impacting overall farm performance and stability

Your design must meet all these requirements.

Which approach should you recommend?

- A. Design sandboxed solutions to deploy on the SharePoint 2010 farm. Specify that the execution of user code is to run on the same WFE server as the server that received the Web request.
- B. Design sandboxed solutions to deploy on the SharePoint 2010 farm. Specify that the execution of user code is to run on any available WFE server that is running the User Code Service.
- C. Design farm-scoped solutions and deploy them in the farm. Ensure that the SharePoint administrator will uninstall solutions if WFE servers are running at or near 100% CPU utilization.
- D. Design user controls, load them into Web Parts, and deploy them as features in the farm. Ensure that the SharePoint administrator will deactivate these features in the farm if WFE servers are running at or near 100% CPU utilization.

**Answer: B**

23. Your SharePoint 2010 team does not have enough development team members, time, or budget to support the requests from all of the different departments in the organization.

You have the following requirements:

- Your internal IT security team requires that the SharePoint 2010 architects include the proper design specifications necessary to limit the security vulnerabilities in the applications they develop.
- Mid-level Microsoft ASP.NET developers across the organization must be able to implement SharePoint 2010 solutions that meet the security specifications with no extra training.
- You must use specific tools and procedures to ensure that possible security vulnerabilities are limited.

You need to create a SharePoint 2010 design specification that directs the developers in the proper method of creating applications to minimize security issues.

Which approach should you recommend?

- A. Specify that developers should implement sandboxed solutions.
- B. Specify that developers should implement the applications with code access security (CAS).
- C. Guide developers to implement sandboxed and farm solutions.
- D. Guide developers to implement and deploy custom solutions at the farm level.

**Answer: A**

24. You are designing a solution for a SharePoint 2010 site.

You need to design a solution that includes:

- Custom pages to add, view, and update list items.
- Custom workflows with code on list items.

Which approach should you recommend?

- A. Design a sandboxed solution that includes workflows with code and custom application pages.
- B. Design multiple sandboxed solutions that include workflows with code and custom application pages.
- C. Design a farm solution that includes workflows with code and custom application pages.
- D. Design a farm solution that includes workflows with code. Develop list application pages and use the Stsadm tool to deploy them manually to the bin folder of the Web application.

**Answer: C**

25. You are designing a SharePoint 2010 farm in your organization.

You need to design the library to meet the following requirements:

- The budget approval office needs a custom document library, which will send an e-mail as soon as each budget document is updated by a user.

.The SharePoint farm administrator wants to block the addition of any document that is larger than 100 MB and send out a message to users informing them of the failure.

Which approach should you recommend?

A. Design the following event receivers:

.An asynchronous event receiver to send an e-mail after the document is updated

.A synchronous event receiver to display a warning message when a file is added that is larger than 100 MB

B. Design the following event receivers:

.A synchronous event receiver to send an e-mail after the document is updated

.An asynchronous event receiver to display a warning message when a file is added that is larger than 100 MB

C. Design a timer job to send the following:

.A batch of "budget document updated" e-mails at the end of each day

.A synchronous event receiver to display a warning message when a file is added that is larger than 100 MB

D. Design a service application to send the following:

.A batch of "budget document updated" e-mails at the end of each day

.A synchronous event receiver to display a warning message when a file is added that is larger than 100 MB

**Answer: A**

26. You are designing a solution on a SharePoint 2010 intranet site where administrative access to the SharePoint 2010 application server is not available.

You need to ensure that site usage information is collected on search statistics for all the sites on the farm.

Which approach should you recommend?

A. Create a Windows service and schedule it to collect the search statistics according to a specified schedule.

- B. Create a SharePoint sandboxed solution to collect the search statistics.
- C. Write a console application to collect search statistics. Create a timer job to run the application according to a specified schedule.
- D. Write a console application to collect search statistics. Use Windows Task Scheduler to run the application at regular intervals.

**Answer: C**

27. You are using SharePoint 2010 to design a site at your company. All employees need to have permission to fill out a new form. When an employee submits the form, the request should be saved as an item in a custom list.

You have the following requirements:

- For security reasons, employees must only be able to view their own requests.
- .Employees must not be able to view requests that other employees have submitted.
- .Company managers must have permission to view every request submitted.

Which approach should you recommend?

- A. Create a new workflow that updates the owner of the list item to the username of the employee who submitted the form.
- B. Create and schedule a SharePoint timer job that sets item level security on each item in the list.
- C. Create an event receiver that sets the appropriate item level security. Add the event receiver to the ItemAdded event in the list.
- D. Create an event receiver that sets the appropriate list level security. Add the event receiver to the ItemUpdated event in the list.

**Answer: C**

28. You manage your company's SharePoint 2010 development efforts. Your company has hired an outside vendor to print its marketing materials.

The head of the marketing department has asked you to design a plan to add functionality to the intranet

site that will allow company employees to submit their print orders to a SharePoint list on the intranet site throughout the day. The vendor should receive a daily e-mail that shows them all the orders that were submitted to the intranet site the day before.

Your plan needs to make this functionality possible.

Which approach should you recommend?

- A. Create a custom workflow that generates an e-mail with order details and sends it to the vendor. Attach the workflow to the list and configure it to execute each time an item is added to the list.
- B. Create an event receiver that generates an e-mail with order details and sends it to the vendor. Attach the event receiver to the ItemAdding event on the list.
- C. Create an event receiver that generates an e-mail with order details and sends it to the vendor. Attach the event receiver to the ItemAdded event on the list.
- D. Create a timer job that retrieves all the orders submitted to the SharePoint list, generates an e-mail containing the order information, and sends it to the vendor. Schedule the timer job to run each morning.

**Answer: D**

29. You are designing a SharePoint 2010 intranet site at your company.

The accounting department has designed a SharePoint list. They need this list to be included in any new site that is created by using the Team Site site definition provided by SharePoint. A feature has been created that provisions the list in a site.

You need to satisfy the request from the accounting department, while reducing the risk that future SharePoint service pack updates will impact your solution.

Which approach should you recommend?

- A. Modify the Team Site onet.xml file. Add the feature to the WebFeatures element in the onet.xml file.
- B. Modify the Team Site onet.xml file. Add the feature to the SiteFeatures element in the onet.xml file.
- C. Create an event handler and register it with the WebAdding event. Activate the feature in the event handler.
- D. Create an event handler and register it with the WebProvisioned event. Activate the feature in the event handler.



**Answer: D**

30. You are designing a SharePoint 2010 application that will be used across multiple Web applications. A custom list definition is deployed to every site collection in the farm.

Your application must include a report that shows how often the new list is provisioned anywhere in the farm. The application must enable permissions to be granted to specific users to view the report, without the redeployment of code.

You need to design a system for logging and reporting this activity.

Which two actions should be performed? (Each correct answer presents part of the solution. Choose two.)

A. Create an event handler and register it with the ListAdded event of your custom list definition. In the event handler, connect to the logging service and log the list creation event. Deploy the event handler to every site collection in the farm.

B. Create a list workflow and bind it to the custom list definition. When the ItemAdded event executes, connect to the logging service and log the list creation event. Deploy the workflow to every site collection in the farm.

C. Create a Web service that adds a row to a custom database each time a list is created. Create an application page that displays a report of logged activity. Grant specific users permission to view the page in the code-behind of the application page. Deploy the page to Central Administration.

D. Create a service application that adds a row to a custom database each time a list is created, and displays a report of the logged activity. Create an instance of the service application that can be used by every Web application in the farm. Grant specific users permission to view the report from the Services Applications tab in Central Administration.

**Answer: AD**

31. You are using SharePoint 2010 to design an intranet application for a manufacturer.

Employees need to view Web pages with instructions on how to assemble various products. The legal department requires that employees can view past versions of each set of instructions. The instructions may contain rich text elements such as bullets and images.

You need to design a solution that meets these requirements.

Which approach should you recommend?

- A. For each product, create a Web Part page and add a Content Editor Web Part titled "Instructions" to a Web Part zone on that page. Add the set of instructions to the Web Part.
- B. For each product, create an application page and add a Content Editor Web Part titled "Instructions" to a Web Part Zone on that page. Add the set of instructions to the Web Part.
- C. Create a page layout that includes a Web Part zone and a Content Editor Web Part titled "Instructions" in that Web Part Zone. For each product, create a publishing page based on that page layout and add the set of instructions to the Web Part.
- D. Create a content type with a Publishing HTML column titled "Instructions". Create a page layout based on the content type for each product. For each product, create a publishing page using the page layout. Add the set of instructions to the "Instructions" column.

**Answer: C**

32. You are designing the modification of an existing SharePoint 2010 intranet site for a school.

The registrar at the school needs each department to be able to add a new page to their departmental site. The page must be preconfigured with a Web Part showing the latest announcement list items from the registrar's site regarding class enrollment for the upcoming semester.

You need to design a page template that can be used by multiple departments.

Which approach should you recommend?

- A. Create a custom master page that includes a Web Part zone. Add a Web Part containing the registrar's announcements to the Web Part zone. Apply the master page to the intranet site.
- B. Create a publishing page in the registrar's site that includes a Web Part zone. Add a Web Part containing the registrar's announcements to the Web Part zone.
- C. Create a page layout the includes a Web Part zone. Add a Web Part containing the registrar's announcements to the Web Part zone.
- D. Create an application page with a Web Part Zone. Add a Web Part containing the registrar's announcements to the Web Part Zone. Deploy the application page to the \_layouts directory.

**Answer: C**

33. You are designing a SharePoint 2010 site that employees will use for project collaboration. The design should include a project name, identification number, and the names of the people on the project team displayed on a new page.

You need to design the site to meet the following requirements:

- This page must be immediately available in existing sites in the site collection upon deployment.
- New sites must have this page immediately available.

Which approach should you recommend?

- A. Create a master page and deploy it to the Master Page Gallery. Apply the master page to every site in the site collection.
- B. Create a page layout and deploy it to the Master Page Gallery. Create a publishing page, based on the page layout, in every site in the site collection.
- C. Create an application page and deploy it to the \_layouts directory.
- D. Create a Web Part page and deploy it to the top-level site of the site collection.

**Answer: C**

34. You are designing a SharePoint 2010 application to manage projects.

The application has the following requirements:

- Users must have access to the CreateProject.aspx page.
- All changes to the CreateProject.aspx page must be reflected on all project sites.

You need to design a page that can be accessed from each project site.

Which approach should you recommend?

- A. Create a master page and deploy it to the \_layouts directory.
- B. Create a master page and deploy it to the \_masterpages directory.
- C. Create an application page and deploy it to the \_layouts directory.
- D. Create an application page and deploy it to the Pages library.

**Answer: C**

35. You are using SharePoint 2010 to develop multiple Internet sites.

You have the following requirements:

- Create a user registration page for each site.
- Use the logic found in a custom control named UserRegistration.ascx.

You need to provide a solution that will allow each site to have a custom user registration page with HTML editing capability.

Which approach should you recommend?

- A. Create a page based on a page layout that references UserRegistration.ascx and includes an HTML editing field.
- B. Create a page that references UserRegistration.ascx and includes an HTML editing field.
- C. Create an application page deployed to the \_layouts directory that references UserRegistration.ascx and includes an HTML editing field.
- D. Create an application page deployed to the Pages library that references UserRegistration.ascx and includes an HTML editing field.

**Answer: A**

36. You are designing a SharePoint 2010 application.

You need to design the application so that it meets the following requirements:

- Content authors must be allowed to create product pages.
- Content authors also must be able to add Web Parts to customize the page.
- Product pages must allow the content author to select a value from a Product Type field as defined in an existing site column.

Which approach should you recommend?

- A. Create an application page that includes the Product Type field and Web Part zones.

- B. Create a page layout that includes the Product Type field and Web Part zones.
- C. Create a static page that includes the Product Type field and Web Part zones.
- D. Create a Web Part page that includes the Product Type field and Web Part zones.

**Answer: B**

37. You are designing a SharePoint 2010 application.

You need to specify that a custom button is defined and added to the SharePoint 2010 ribbon.

Which two actions should be performed? (Each correct answer presents part of the solution. Choose two.)

- A. Create a new Content Organizer content type that defines the button.
- B. Create Feature Definition and Feature Element XML files that define the button.
- C. Use the STSADM.EXE utility to deploy the button.
- D. Use the Site Collection Features option in the Site Collection Administration group to deploy the button.

**Answer: BC**

38. You are designing a SharePoint 2010 application that allows users to enter contact information into a form.

You need to design the application so that it displays a dialog box prompting users to validate their contact information before the data is saved.

Which approach should you recommend?

- A. Create an application page that calls the SP.UI.ModalDialog class.
- B. Create an application page that calls the SP.UI.PopoutMenu class.
- C. Create a Web Part that calls the MessageBox class.
- D. Create a visual Web Part that calls the SP.UI.PopoutMenu class.

**Answer: A**

39. You have a sandboxed SharePoint 2010 application for managing sales proposals. The application runs in a hosted environment that does not allow direct access to external services or the installation of proxies or external content types.

The account status for your application is contained in a Customer Relationship Management (CRM) system hosted on a separate server. The account status information is exposed via Web services.

You need to display account status from the CRM system in the form of dashboards, pie charts, and other reports to the users within your firewall.

What are two possible ways to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. Develop a Silverlight component that is responsible for making the Web service call from the client and rendering the returned data.
- B. Develop a Web Part that uses AJAX and is responsible for making the Web service call from the client and rendering the returned data.
- C. Develop a Visual Web Part that calls the Web service in the OnLoad event of the contained ASMX control.
- D. Develop a user control that calls the Web service in the OnPreRender event and render the returned data through XSLT.

**Answer:** AB

40. You have a social networking site in SharePoint 2010 that allows users to post content for all other users to view. Users have read-only access to documents that they did not upload themselves.

You are designing a way for users to easily flag content as objectionable so that the site administrators can evaluate and remove this content as necessary.

You need to add this objectionable content functionality to all document libraries.

Which approach should you recommend?

- A. Add a button to the ribbon associated to document libraries, which will execute the objectionable content functionality when clicked.
- B. Add a dialog to the site default page that will walk the user through how to report objectionable content.



- C. Modify the system files within the layouts directory that are used to render the form pages.
- D. Add a custom field to the base document content type and an event receiver to the document library that will execute the objectionable content functionality.

**Answer: A**

41. You are designing a SharePoint 2010 solution.

The solution includes the rendering of a highly interactive control that must allow the following functionality:

- Fading items in and out.
- Dragging items around the display.
- Seamlessly updating information on the server without affecting other items on the page.

You need to design the interactive control according to these requirements.

What are two possible ways to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. Use cascading style sheets (CSS) to render the graphical enhancements. Use AJAX to post the client-side information back to the server.
- B. Use client-side scripting to render the graphical enhancements. Use AJAX to post the client-side information back to the server.
- C. Use Silverlight to render the graphical enhancements. Use Microsoft Windows Communication Foundation (WCF) to post the client-side information back to the server.
- D. Use a visual Web Part to render the graphical enhancements. Raise custom events on the client side to post information back to the server.

**Answer: BC**

42. You are developing an Internet Web site. You plan to use SharePoint 2010 for content management. The Web site design includes extensive graphics.

You need to ensure that the following project requirements for the site are met:

- Complex structural changes to support the new branding

.Consistency across all of its pages and subsites

.Support for multiple browsers

Which approach should you recommend?

- A. Develop a new custom master page to be applied throughout the site.
- B. Develop a new custom template to be used throughout the site.
- C. Use PowerPoint 2010 themes to apply new custom SharePoint branding throughout the site.
- D. Specify an alternate cascading style sheet (CSS) file to use for all pages within the site.

**Answer: A**

43. Your company has more than 100 SharePoint 2010 intranet sites.

The branding of several individual department subsites is not consistent with company standards.

You need to ensure that the branding of all intranet subsites is consistent with company standards and graphics.

Which approach should you recommend?

- A. Create a master page at the root level that specifies the company branding and graphics, and force all subsites to inherit the master page.
- B. Create a master page in the Master Page gallery that specifies the company branding and graphics, and disable document versioning within the Master Page gallery.
- C. Create a theme at the root level that specifies the company branding and graphics, and force all subsites to inherit the theme.
- D. Create a theme at the root level that specifies the company branding and graphics, and reset each subsite back to its original site definition.

**Answer: A**

44. You are designing a branding strategy for a SharePoint 2010 site that uses several third-party controls.

Many of these controls contain inline styling that conflicts with the desired branding. You do not have

access to the code for these controls.

The design must ensure that this SharePoint styling will be applied to the controls.

Which approach should you recommend?

- A. Edit the master page for the site to include the proper styling.
- B. Apply a SharePoint theme, which will override the controls styling.
- C. Use client-side scripting to remove the inline styles.
- D. Modify the core.css file to contain the branding for the site.

**Answer: C**

45. You are designing a branding strategy for a customer with a new SharePoint 2010 server farm. The branding strategy you recommend must enable each department in the company to customize sites with their specific branding preferences.

The design requirements specify that users should be able to:

- Create top-level sites for self-service site and subsite creation.
- Modify their sites without affecting other existing sites.
- Create multiple lists of the same types with different content.
- Implement SharePoint themes.

You need to meet all these design requirements without custom development.

Which strategy should you design for each department to meet these requirements?

- A. a master page
- B. a Microsoft Office PowerPoint 2010 theme
- C. a site definition
- D. a site template

**Answer: D**

46. You are planning an upgrade from an existing Microsoft Office SharePoint Server (MOSS) 2007 farm to a SharePoint 2010 farm.

The existing farm contains customized master pages. These master pages include modifications of the:

·Publishing Console

·Site Actions Menu

·Log-in Control

Your design must specify an upgrade to the existing master pages to function correctly in SharePoint 2010.

Which approach should you recommend?

- A. Create a new SharePoint 2010 master page and add the required controls into the Ribbon on the page.
- B. Update the cascading style sheet (CSS) styles in the core.css file of the existing SharePoint sites with the SharePoint 2010 CSS styles. Add SharePoint 2010 content placeholders to the existing master pages.
- C. Create SharePoint 2010 delegate controls for all of the custom controls in the existing MOSS 2007 master pages. Add these controls to the new SharePoint 2010 master pages.
- D. Use the Farm Configuration wizard to upgrade the existing MOSS 2007 master pages so that the pages are compatible with SharePoint 2010.

**Answer: A**

47. Your company has a SharePoint 2010 Web application that contains multiple site collections.

You have a custom master page that will be used by every site collection in the application.

You need to make sure that changes made to this custom master page are displayed across all site collections in the Web application.

Which approach should you recommend?

- A. Use SharePoint Designer 2010 to add the new master page to each site collection.
- B. Use the Site Master Page Settings page in the Web browser to apply the new master page to the top-level site of each site collection.
- C. Manually upload the master page to the Master Page gallery of each site collection using the Web

browser.

D. Deploy a solution package using Visual Studio that includes the master page in a feature, and activate the feature in each site collection.

**Answer: D**

48. You are designing a SharePoint 2010 intranet site for your company.

You need to make sure that each department's SharePoint site has a unique appearance by using different fonts and font colors for each site. Your design should include no custom development.

Which approach should you recommend?

A. Configure a separate theme using the Site Theme page for each department's site.

B. Create a new cascading style sheet for each department. Define unique fonts and font colors for that department in the new cascading style sheet.

C. Create a feature for each department that deploys a customized cascading style sheet to the style library for the department site.

D. Create a new master page for each department's site and assign unique fonts and font colors inside the master page.

**Answer: A**

49. You are designing a SharePoint 2010 intranet site for a corporation.

Your design must meet the following requirements:

- The homepage must contain a single Web Part that displays a view of a specific document library.

- Each employee must be able to create a persistent view of the list that would be filtered, grouped, and sorted based on their selection criteria.

Which approach should you recommend?

A. Create a new page for each employee and add the document library Web Part to the page. Instruct each employee to customize an individual view of the Web Part. Then select the Make Homepage button in the Page tab on the ribbon.

B. Create the site homepage. Deploy a copy of SharePoint Designer to each employee's computer. Instruct each employee to use SharePoint Designer to customize the site homepage, including the view of the document library.

C. Create the site homepage. Add the document library Web Part to the page, with the Allow Editing in Personal View option selected. Instruct each employee to personalize the page in the browser and to customize an individual view of the Web Part.

D. Create the site homepage. Instruct each employee to edit the homepage in the browser, adding a copy of the document library Web Part to the page. Instruct each employee to customize an individual view of the document library in the new Web Part.

**Answer: C**

50. You are designing a SharePoint 2010 application that creates a content type.

You need to design the application so that users are not able to change the content type from within the SharePoint 2010 user interface.

Which approach should you recommend?

A. Create a content type that is read-only and deployed as a feature.

B. Create a content type that is sealed and deployed as a feature.

C. Use SharePoint Designer 2010 to create a content type and uncheck Allow Modifications.

D. Use SharePoint Designer 2010 to create a content type that is read-only.

**Answer: B**

51. You are designing a site on SharePoint 2010.

You need to design the site so that it meets the following requirements:

- Contributors must be able to use the SharePoint user interface to add, remove, and delete Web Parts only in a Web Part zone named Your Web Parts.

- Only site collection owners may add, remove, and delete Web Parts in a Web Part zone named Required Web Parts.



Which approach should you recommend?

- A. Create a page layout with a Web Part zone named Your Web Parts that allows customizations. Create a Web Part zone named Required Web Parts that allows customizations.
- B. Create a page layout with a Web Part zone named Your Web Parts that allows customizations. Create a Web Part zone named Required Web Parts that does not allow customizations with the desired Web Parts pre-loaded.
- C. Create a page layout with Web Part zones that do not allow customizations and grant contributors full control to the site collection.
- D. Create a Web Part page with a Web Part zone named Your Web Parts that does not allow customizations. Create a Web Part zone named Required Web Parts that allows customizations.

**Answer: B**

52. You are responsible for rebranding the My Sites section of a corporate SharePoint 2010 farm. The new branding includes a change to the Quick Launch menu in all corporate My Sites pages.

You do not have access to modify any master pages. Also, the new branding is not yet finalized and might need to be reverted.

You need to ensure that the Quick Launch menu is updated in all corporate My Sites pages, using the least amount of workforce effort.

Which approach should you recommend?

- A. Use client-side code to inject your modifications into the rendered page.
- B. Use a feature that includes a delegate control with a lower sequence number than the default My Site Quick Launch Delegate.
- C. Manually modify the navigation under Site Settings for each My Site page.
- D. Write and execute a PowerShell script that will iterate through each My Site and modify the navigational settings.

**Answer: B**

53. Your company is rebranding its corporate extranet SharePoint 2010 site.

The new design requires the site's global navigation to use nonstandard fonts for both the top-level and secondary drop-down menus.

You need to ensure that the new branding is rendered consistently in all browsers supported by SharePoint 2010.

Which approach should you recommend?

- A. Specify the `CssClass` of the SharePoint `AspMenu` control.
- B. Specify the `DynamicMenuItemStyle` property of the SharePoint `AspMenu` control to render the text as an image.
- C. Use a theme to specify the font in the design.
- D. Develop a custom menu control to render the text as an image.

**Answer: D**

54. You are designing a maintenance plan for a SharePoint 2010 intranet site.

You have the following requirements:

- The site has 25 custom content types and 5 document libraries. One of the document libraries has more than 1,000 documents.
- .Every document in the site is associated with one of the custom content types.
- .Each document library has a single view, showing the name of the document and the person who last modified it.
- .Private views are not permitted in the site.
- .The site is used for collaboration and does not have any of the SharePoint publishing features enabled.

You need to enable users to filter the documents in the large document library by content type.

Which approach should you recommend?

- A. Activate the Metadata Navigation and Filtering feature. Modify the metadata navigation settings for the document library by adding Content Type to the list of selected hierarchy fields.
- B. Create a new site scope for each content type. For each scope, add a rule of type Property Query. Set the Property Restriction to include any item with the name of the content type of the scope.

C. For each content type, create a new Web Part using the Content Query Web Part. Configure the Web Part to filter the documents in the document library by that content type.

D. Go to the site navigation page and enable the Tree View option. Use the Tree View option to filter the documents in the document library.

**Answer: A**

55. You are designing a SharePoint 2010 intranet site.

Each department has its own site collection. A link to each of the departments must appear in the global navigation for each site collection. You have implemented the SharePoint AspMenu control in the master page.

Your design must specify the correct provider for the menu control.

Which provider should you recommend?

A. SPContentMapProvider

B. SPSiteMapProvider

C. PortalSiteMapProvider

D. SPXmlContentMapProvider

**Answer: D**

56. You work for a manufacturer who needs to advertise its catalog of products online using a SharePoint 2010 publishing site. A page author will create a Web page for every type of product the manufacturer makes. Each Web page will display the name of the material the product is made from and a photo of the product.

You need to design this site to satisfy the following requirements:

- When the page author creates a new Web page for a product, the author should only be able to choose from a list of five materials.

- The manufacturer's marketing manager should be able to add to the list of materials at any time without assistance from the IT department.

.Users can choose to view the site in English, German, or Spanish. A user should see the name of the product material in only the language they have selected.

.The URL of the page should remain the same for each type of product regardless of the language the user has selected.

Which approach should you recommend?

A. Create a site column of type "Choice" for English, German, and French, and add the translated list of materials to the site column for each language. Add all three site columns to the page layout. Give the marketing manager permission to edit the Choice site column values for each language.

B. Create a resource file for each language and install the resource file using a SharePoint solution package. Show the marketing manager how to edit the resource file.

C. Use the Managed Metadata Service to create a set of terms used for product materials and translate each term into English, German, and Spanish. Add a site column mapped to the term set to the page layout. Make the marketing manager the term set owner.

D. For each type of product, create three Web pages, one for each language. Give the marketing manager permission to edit all the product Web pages.

**Answer: C**

57. You are designing a multi-lingual publishing Web site using SharePoint 2010. Administrators have installed language packs for Japanese, Chinese, and Vietnamese on the server.

Users whose browser locale is set to Japanese, Chinese, or Vietnamese must be able to navigate to a corresponding language-specific site with as few clicks as possible.

Your design needs to ensure that this is accomplished with no custom development.

Which approach should you recommend?

A. Create a variation label for Japanese, Chinese, and Vietnamese. For each variation label, create a hierarchy. SharePoint will automatically redirect users to the language-specific site that corresponds to their browser locale.

B. Create a language-specific site for Japanese, Chinese, and Vietnamese. Create a top-level site with a welcome page that contains hyperlinks to the language-specific sites. Allow users to navigate to the language-specific site of their choosing.

C. Create a language-specific site for Japanese, Chinese, and Vietnamese. Create an application page that queries that user's browser locale and redirects them to the appropriate language-specific site. Make this page the welcome page for the top-level site.

D. Create a language-specific site for Japanese, Chinese, and Vietnamese. Create a JScript file that queries the user's browser locale and redirects them to the appropriate language-specific site. Add a reference to the JScript file to each master pages used in the site collection.

**Answer: A**

58. You work for a product company that sells custom SharePoint 2010 Web Parts to customers. You are designing a Web Part that will be deployed to the Web Part gallery when a feature is activated.

The feature must accomodate multiple languages, so that a user will see the name of the feature in the same language that was used to create the site.

You need to ensure that your design meets this requirement.

Which two approaches would accomplish this goal? (Each correct answer presents a complete solution. Choose two.)

A. For each language, add a new node to the Manifest.xml file. Add the language ID and the localized name of the feature to each node.

B. For each language, add a new node to the Feature.xml file. Add the language ID and the localized name of the feature to each node.

C. Create a resource file for each language. Deploy the .resx files to the 14\Resources folder. Assign the name of the feature a resource token value.

D. Create a resource file for each language. Deploy the .resx files to a folder named Resources inside the feature folder. Assign the name of the feature a resource token value.

**Answer: CD**

59. You are designing a collection of Web Parts that will be packaged into a SharePoint 2010 application that you plan to market worldwide.

In order to be accessible in many different languages, the following elements must comply with localization requirements:

- The feature title and description
- .The UI property labels

You need to design the Web Parts according to the localization requirements in a way that takes the fewest developer hours to implement and maintain.

Which approach should you recommend?

- A. Include feature receivers that ensure the supported language packs are installed before continuing with the installation.
- B. Include code to programmatically create a new term set with localized labels, and reference these throughout your solution.
- C. Include resource files with localized labels, and reference these throughout your solution.
- D. Compile a different version of your solution for each language you intend to support.

**Answer: C**

60. You are planning an upgrade for an existing SharePoint 2010 intranet site to support a Spanish language version of all existing sites.

You need to meet the following requirements:

- All text on the sites must appear in both Spanish and English.
- .Every page on the current English sites must also appear in Spanish.
- .All future pages must be created in both languages in a consistent manner.
- .The upgrade must involve the least amount of human effort and the least expenditure of hardware and software resources.

Which approach should you recommend?

- A. Install a parallel SharePoint farm using Spanish as the default language. Recreate all sites and incorporate the Spanish language version of the site definition by specifying the Spanish language identifier.
- B. Install a language pack for Spanish on the existing SharePoint farm. Recreate all sites and incorporate the Spanish language version of the site definition by specifying the Spanish language identifier.

C. Install a language pack for Spanish on the existing SharePoint farm. Create SharePoint workflows that apply the Spanish language identifier for the sites by specifying Spanish variations.

D. Install a language pack for Spanish on the existing SharePoint farm. Apply the Spanish language identifier to the existing site templates.

**Answer: B**

61. You are designing an application in a SharePoint 2010 server farm for an international firm. The sites must be localized for the languages in different countries.

The application must include support for the following functionality:

- Feature-specific resource files
- .Language-specific Web Part package assemblies and resources
- .Language-specific Web template files
- .Language-specific \_layout files

You need to design a solution that meets all these requirements.

Which approach should you recommend?

- A. Create a language pack for the specific language required and add it to the solution store before adding the corporate solution. Deploy the language pack and then deploy the solution.
- B. Create a language pack for the specific language required and add it to the solution store before adding the corporate solution. Deploy the solution and then deploy the language pack.
- C. Create a language pack for the specific language required and add it to the solution store after adding the corporate solution. Deploy the language pack and then deploy the solution.
- D. Create a language pack for the specific language required and add it to the solution store after adding the corporate solution. Deploy the solution and then deploy the language pack.

**Answer: D**

62. You are consulting with a customer who plans to scale out their SharePoint 2010 Internet farm. You recommend that they install the standard SharePoint 2010 software needed to support the Web server

role, including language support software, on their servers.

The new requirements for the farm include the following:

- Two new front-end Web servers will be added to the current system to increase the performance and availability of the Internet sites.
- . The new Web servers must properly render all sites in the five languages currently supported in the farm.
- . The installation must support the addition of more languages in the future and conform to all future service pack updates.
- . The installation plan must use standard SharePoint 2010 tools and procedures.

You need to design a plan for the customer to set up the Web servers to support all of the languages and meet the requirements.

What should you recommend that the customer do next?

- A. Install a language pack for each of the languages needed to display all site pages correctly. Include each of the language-specific site templates used to create the current sites.
- B. Install the same multilingual installation packages on the Web servers that were used to install the supported languages.
- C. Create the site collections needed to support the sites in all supported languages, including each of the language-specific site templates. Install a language pack for each of the supported languages.
- D. Install the default language for the current farm on the two new Web servers. Then migrate all sites in the farm to these servers, including all language-specific site templates. Update the new Web servers with all necessary language packs.

**Answer: A**

63. You are designing a SharePoint 2010 implementation that will be used by a company with a variety of authentication systems.

The authentication system must provide:

- Authentication for Windows-based and Linux-based systems
- . Support for multiple authentication types



.Strong real-time authentication for applications

.Delegation of user identity among applications

You need to use standard SharePoint 2010 technologies to meet all these requirements.

Which authentication model should you design for the SharePoint farm?

A. claims based

B. forms based

C. Kerberos

D. Windows

**Answer: A**

64. You are designing a Web application for a SharePoint 2010 system.

You need to plan an authorization system that meets the following requirements:

.It must enforce uniform security throughout all site collections at the Web application or zone level.

.It must use Windows authentication.

.It must assign a role incorporating a collection of rights to individual SharePoint 2010 users or domain groups.

.It must specify the rights for a user or group in the Web application based on an Active Directory (AD) user or group account.

.The rights should not be shared across other Web applications.

You need to design a plan that provides specific control of SharePoint object access and meets all requirements.

Which approach should you recommend?

A. Create custom SharePoint roles and assign AD users and groups to the roles.

B. Create a security policy in the web.config file for the Web application. Add AD users and groups to the policy.

C. Create a forms-based authentication and set the Zone to Extranet for the Web application. Specify a

custom role provider that maps to a custom Microsoft SQL Server database for users and groups.

D. Create a custom authentication provider based on Kerberos for the Web application. Specify roles for the users and groups in a Lightweight Directory Access Protocol (LDAP) directory.

**Answer: B**

65. You are designing a SharePoint 2010 application that contains a Web Part. The Web Part must connect to an RSS data stream provided by a Web service. The Web service is on another server in the domain.

You need to recommend an authentication approach that meets the following requirements:

- SharePoint users must not be required to supply additional credentials for the Web service.
- Standard authentication systems available to SharePoint 2010 must be used.

Which authentication approach should you recommend?

- A. NTLM
- B. forms-based authentication (FBA)
- C. Kerberos
- D. Lightweight Directory Access Protocol (LDAP)

**Answer: C**

66. You are designing an application that will use a timer job that will run each night to send documents to a SharePoint 2010 Records Center site for archiving. The security on the site requires higher privileges than those normally associated with the application.

The security requirements for this application specify that:

- It must not require customized storage of the user credentials.
- The user token used for security access must expire within 24 hours unless specifically refreshed to prevent extended or unintended use over time.
- The security mechanism must require a two-way trust to prevent unauthorized activity between domains.

.The application must use the SharePoint object model to accomplish this.

You need to design the application to support these security requirements.

How should you design the timer job?

- A. to inherit the security role assignments
- B. to log on to the Records Center site with a service account stored in a database
- C. to run with elevated privileges
- D. to run with impersonation

**Answer: D**

67. You are designing an authentication plan for a SharePoint 2010 intranet site for a large enterprise. The site administrator and the Active Directory (AD) administrator are concerned that the traffic on the SharePoint site might cause performance issues related to site authentication. Average user page sessions typically last longer than 15 minutes.

You must design an authentication plan that provides the best possible performance and meets the following requirements:

- The plan must be able to accommodate 50,000 users.
- The existing infrastructure must be used as much as possible but the performance problem with user access must be prevented.

Which approach should you recommend?

- A. Design a SharePoint 2010 site that requires Windows Kerberos authentication to log on.
- B. Design a SharePoint 2010 site that requires Windows NTLM authentication to log on.
- C. Design a site that requires basic authentication to log on.
- D. Design a site that requires forms-based authentication to log on.

**Answer: A**

68. You are designing a knowledge base (KB) solution for a SharePoint 2010 Internet site for vendors and

employees in your organization. The employees have Active Directory (AD) accounts.

You have the following requirements:

- You must incorporate the existing Windows authentication system based on AD.
- .Vendors who have no Windows credentials must have access to the KB.
- .Content editors must be able to use their Windows credentials to log on to the site and publish the content.

You need to ensure that vendors and content editors can access the site.

Which approach should you recommend?

- A. Use Windows based authentication for employees and vendors to access the KB.
- B. Use Windows based authentication for employees and forms-based authentication for vendors to access the KB.
- C. Create a custom SharePoint group that includes employees and vendors. Give this group permission to access the KB.
- D. Use SharePoint user profiles to allow vendors and employees to access the KB.

**Answer: B**

69. You are designing an extranet site using SharePoint 2010.

This site must allow employees to log on to the extranet site from home. They should use their corporate Active Directory credentials by typing their user name and password into text boxes on a logon page on the site. After users log on, they should be redirected to the site home page.

You need to meet these requirements with the least amount of configuration.

Which type of authentication should you design?

- A. forms-based authentication (FBA)
- B. Web Single-Sign On (SSO)
- C. NTLM
- D. Kerberos

**Answer: A**

70. Your company has a SharePoint 2010 farm that has one Web application with multiple site collections.

Your team needs to meet the following requirements:

- Certain individuals need to have the “Full Control” permission set on every site collection in the Web application.

- Permissions must be set in a central location and should effect all current and future site collections.

Which approach should you recommend?

A. Add users to the local administrators group on the server.

B. Add users to the Site Owners group in each site collection.

C. Create a user policy for the Web application in Central Administration.

D. Create a group policy in the Active Directory domain to which the SharePoint users authenticate.

**Answer: C**

71. You are planning security for a SharePoint 2010 intranet site. A subsite for the human resources (HR) department contains a list of salary information. All the HR department employees are in an Active Directory (AD) group named SharePoint HR. The SharePoint HR AD group has been granted Read access to the subsite.

You have the following requirements:

- Access to the list should be handled only through the HR department group.

- The group membership of the AD HR group should be used to specify the site permissions.

- The department’s administrative assistant should not have access to view the salary list.

You need to ensure that permissions are configured on the subsite to meet these requirements.

Which plan should you recommend?

A. Remove the assistant from the SharePoint HR AD group. Give the assistant individual Read access to the site. Modify the salary list permissions, removing the assistant from the list.

- B. Modify the salary list permissions, explicitly denying the assistant Read access to the salary list.
- C. Modify the salary list permissions, remove the SharePoint HR group from the list of users and groups who have been granted any sort of access to the list. Grant each employee of the HR department individual Read access to the salary list, with the exception of the assistant.
- D. Modify the salary list permissions, explicitly denying the SharePoint HR group Read access to the salary list. Grant each employee of the HR department individual Read access to the salary list, with the exception of the assistant.

**Answer: A**

72. You are designing a SharePoint 2010 application and a Web application.

You need to design a security model for the application that requires users to be authenticated through the Windows Live ID service without using a custom provider.

Which type of authentication should you recommend?

- A. claims-based authentication
- B. Kerberos
- C. NTLM
- D. forms-based authentication

**Answer: A**

73. You are designing a SharePoint 2010 application.

You have the following requirements:

- Display sales data from a CRM system.
- .Authenticate users to the CRM system through their Windows credentials.
- .Eliminate multiple authentication requests.

You need to choose an authentication method that supports the requirements.

Which authentication method should you recommend?

- A. NTLM
- B. Kerberos
- C. forms-based authentication that prompts for the user's Windows credentials
- D. forms-based authentication that uses the ASP.NET SQL Membership provider

**Answer: B**

74. You are designing a SharePoint 2010 solution that requires custom configuration settings. The solution will reside in every Web application within the environment because subsequent features depend on these settings.

The server farm that the code is currently deployed to is going to be replaced with a new one. The content databases will be migrated to the new server farm. Manual changes to any files will not be allowed after the migration is complete.

You need to ensure that the configuration settings are in place on the new server farm.

Which approach should you recommend?

- A. Place your settings within a feature that uses the SPWebConfigModification property to persist the information in the web.config file.
- B. Place your settings in a file named webconfig.MySolution.xml and place it in the \14\config directory.
- C. Place your settings in the current web.config file for each Web application.
- D. Place your settings in the hierarchical object store in the SPPersistedObject class.

**Answer: D**

75. You are designing a feature for a SharePoint 2010 solution that will be activated by default in your site definition. The values for the configuration settings are based on the particular Web site on which the feature is activated.

You have the following requirements:

- Setting the configuration values should not cause downtime.
- The configuration settings must be accessible by other features.

You need to design how the configuration settings will be stored.

Which approach should you recommend?

- A. Specify the configuration settings using the SPWebConfigModification object.
- B. Specify the configuration settings in the property bag for the Web site.
- C. Place the configuration settings in the web.config file.
- D. Place the configuration settings in a list created by the site definition.

**Answer: B**

76. You are designing a SharePoint 2010 solution. Site administrators do not have direct access to the file system on the Web servers.

You need to design the solution according to following requirements:

- It must contain a set of Web Parts that receive information from a common collection of configuration data.
- Site administrators must be able to modify the configuration settings for individual sites using the standard SharePoint user interface.

Which approach should you recommend?

- A. Set the configuration data with the SPWebConfigModification object.
- B. Set the configuration data with SharePoint persisted objects.
- C. Set the configuration data in the property bag for each Web site.
- D. Set the configuration data in a list on each site where the Web Parts are placed.

**Answer: D**

77. You are designing a SharePoint 2010 application that connects to an external Microsoft SQL Server database.

You have the following requirements:

- Server administrators can add and edit connection strings at the Web application level.



.SharePoint users must not be able to view or modify sensitive data in the connection strings.

.Server administrators can add or change the connection strings declaratively with no custom UI required.

.The connection strings can be modified programmatically without redeploying code.

You need to create a plan to store connection strings for the database within the SharePoint system.

Which approach should you recommend?

A. Add or change the connection strings in the web.config file.

B. Use a hierarchical object store configuration approach to store the connection strings.

C. Use a property bag configuration approach to store the connection strings.

D. Use SharePoint lists to store the connection strings.

**Answer: A**

78. You are designing an application configuration approach for a custom SharePoint 2010 application.

You need to design the application configuration to:

.Store and secure custom configuration settings for the application including connection strings, server names, file paths, and other miscellaneous settings.

.Read and display the settings on the site with an administrative user interface that can be configured using a custom \_layouts page.

.Store configuration settings at the farm, Web application, site collection, and site levels as needed.

You need to design a storage option that is simple and lightweight in structure and programmatically configurable.

Which approach should you recommend?

A. Add custom configuration settings to the web.config file and programmatically read this file to display the custom settings.

B. Use a hierarchical object store to save the custom configuration settings and programmatically read it to display the custom settings.

C. Use a property bag to store the custom configuration settings.

D. Use SharePoint lists to store the custom configuration settings.

**Answer: C**

79. You are designing a SharePoint 2010 intranet site.

Your design must:

- Specify the manner in which to store and read custom configuration settings.
- .Use a standard user interface to allow the configuration settings to be created or changed.

You need to design the solution at the site collection and site levels to meet these requirements.

Which approach should you recommend?

- A. Use the property bag to store custom configuration settings.
- B. Use the hierarchical object store to store custom configuration settings
- C. Use SharePoint lists to store the custom configuration settings
- D. Add custom configuration settings in the web.config file to display the settings

**Answer: C**

80. You are designing a SharePoint 2010 farm implementation that will include an extranet zone that will employ forms-based authentication (FBA).

The plan must:

- Specify how farm administrators will manage modifications to the configuration settings for the FBA within each Web application.
- .Support granular modifications to the individual Web applications.
- .Include a process to apply the modifications to the SharePoint configuration database.
- .Specify a process to deploy the changes throughout the server farm by propagating the changes to all Web front-end servers.

You need to create a software configuration management plan for the farm that meets all these requirements.

Which approach should your plan recommend?

- A. Create a feature that contains code to read, modify, and save the configuration setting for the SPWebApplication object for each Web application. Save the settings in the hierarchical object store by creating a SPPersistedObject class to store the configuration.
- B. Create a feature that contains code to modify the configuration settings to the web.config file for each Web application. Then propagate the changes programmatically by implementing the SPWebConfigModification class.
- C. Build a custom list for each Web application that stores the required configuration information. Create a custom workflow that uses the Set Field in Current Item action to synchronize the settings in the list with the configuration database and the Web servers.
- D. Build the required changes declaratively by creating an XML extension containing the settings needed. Deploy the file to the 14\Config directory. Then use the Stsadm copyappbincontent command to merge these changes with the existing web.config file.

**Answer: B**

81. You are designing a custom administrative timer job for a SharePoint 2010 farm.

You need to design a storage plan for the program configuration data that meets the following requirements:

- .The configuration data in the storage location must control the program logic for the timer job.
- .The storage location must allow the configuration information to be saved and modified as the timer job parameters change.
- .The storage location must require administrative access to modify the program logic.
- .The storage method must support farm-scoped timer jobs.

Which object class should you use to create the storage location?

- A. the ConfigurationSection class in the web.config file
- B. the SPWebConfigModification class in in the web.config file
- C. the SPPersistedObject class in the hierarchical object store
- D. the SPWeb class in the site collection property bag

**Answer: C**

82. You are planning to store some custom configuration settings in a SharePoint 2010 farm.

A set of key-value pairs must be saved and retrieved for several subsites within a web application.

You need to ensure that the key-value settings are stored for each subsite.

Which approach should you recommend?

- A. Declaratively store the values in the web.config file for the web application.
- B. Declaratively store the values in a custom list in the site collection that contains the subsites.
- C. Programmatically store the values in the property bag of the SPFile object.
- D. Programmatically store the values in the property bag of the SPWeb object.

**Answer: D**

83. You are designing a SharePoint 2010 Internet site for e-commerce. The site shows pricing information retrieved from a Microsoft SQL Server database for the deals featured each day on the home page.

You need to cache the pricing data for each featured deal on the server and refresh the data with a minimum amount of network traffic.

Which approach should you recommend?

- A. Use LINQ to SharePoint from a query of the database server for the pricing data.
- B. Use AJAX code on the client from the database server.
- C. Use the server session state to cache the data.
- D. Cache the data and use a lock to control the refresh of the cache data.

**Answer: D**

84. You are designing a Web Part for SharePoint 2010 that must be able to be used on any site in the farm. The Web Part will display data values updated from a Microsoft SQL Server database.

Your design must:

- Verify the actual performance data of the Web Part on any page where it is used in the farm.
- Trace performance and latency through the SharePoint, .NET, and SQL Server layers of the Web Part execution process.
- Provide information that can be used to debug and troubleshoot all issues with page rendering time.

You need to meet all the requirements and allow your developers to enable this capability on any page they need to test.

Which approach should you recommend?

- A. Build and deploy the Web Part as a sandboxed solution and set a daily quota for the Web Part. Monitor the Web Part memory utilization and adjust the appropriate ResourceMeasures property for the sandboxed solution.
- B. Build and deploy the Web Part as a sandboxed solution and set an absolute limit quota for the Web Part. Monitor the Web Part performance and adjust the appropriate ResourceMeasures property programmatically using the SharePoint object model.
- C. Build and deploy the Web Part hosted in each site that requires it. Set the developer dashboard to Off for the site. When testing performance, change the dashboard setting to On using a PowerShell script.
- D. Build and deploy the Web Part hosted in the Central Administration site. Set the developer dashboard to OnDemand in the farm. When testing performance, manually enable the dashboard on each Web page.

**Answer: D**

85. You are designing a SharePoint 2010 application.

You have an Internet-facing site with numerous image and movie files.

You need to ensure that these files are cached so that they are displayed to users quickly.

Which approach should you recommend?

- A. In the SharePoint web.config file, set the cacheForEditRights property of the OutputCacheProfiles element to true.
- B. In the SharePoint web.config file, set the enabled property of the BlobCache element to true.

C. In Site Collection Administration, use Site Collection Cache Settings to configure the cache.

D. In Central Administration, use Search Administration to manage the cache.

**Answer: B**

86. You are consulting with a customer who has an Internet-facing SharePoint 2010 site. The SharePoint farm runs across multiple servers.

The customer needs to improve the user experience on the site by improving Web page load times. The site customization requires extensive resources, including large image files, custom CSS, and JavaScript files.

You need to suggest a way to help improve the SharePoint site performance that does not require a hardware upgrade.

What should you recommend that the customer do?

A. Configure the query servers in the farm as additional Web servers and verify that the object cache is enabled on all Internet-facing Web sites.

B. Reconfigure the Web servers to increase the size of their page files.

C. Enable disk-based caching on the Web servers for the Internet-facing Web site.

D. Create an additional Microsoft SQL Server database to store the configuration database that stores the data for the site.

**Answer: C**

87. You are planning a development environment to create custom solutions for a production SharePoint 2010 farm. The plan needs a software tool to help diagnose application bugs introduced through custom code and provide information about the page rendering time from the Web request to the database query.

Developers need to isolate problems and diagnose excessive execution times in the following items:

·Page request

·SPRequest

·Microsoft SQL Server 2008

You need to recommend a way for developers to identify if a value exceeds acceptable ranges in the items listed in the requirements.

What should you tell the developers to do?

- A. Use the Object Explorer component of SQL Server Management Studio to configure the SQL Server Agent properties to Include execution trace messages.
- B. Enable the developer dashboard for the development environment to display the required information on all pages.
- C. Enable the Developer Tools in Microsoft Internet Explorer 8. Open the Script tab and click Start Debugging.
- D. Enable the Developer Tools in Internet Explorer 8. Set up live editing of cascading style sheets (CSS) and click a property name, value, or selector. Then type a new value and press Enter.

**Answer: B**

88. You are designing a SharePoint 2010 application that stores data in a list named BaseList. This list contains 25,000 records.

A view named ViewList filters data on a column named CreateDate. The CreateDate column is of type Date and Time.

The ViewList view requires too much processing time when displaying BaseList data.

Your design needs to improve the performance of the ViewList view when it displays the BaseList data.

Which approach should you recommend?

- A. Enable the Display items in batches of the specified size property in the Item Limit option of ViewList.
- B. Set the Group By option of ViewList to group by the CreateDate column.
- C. Add a column index to BaseList based on the CreateDate column.
- D. Change the CreateDate column type to Date Only.

**Answer: C**

89. You are designing a SharePoint 2010 application that has 24 lists.

The application has the following characteristics:

- Some lists contain only Single line of text columns, while other lists have complex column types such as Person or Group and External Data.

- .Each list contains 10,000 or more records.

Your design needs to limit the number of items in a single database operation to 2,500.

Which approach should you recommend?

- A. Set the List View Lookup Threshold option to 2,500 items.
- B. Set the List View Threshold option to 2,500 items.
- C. Set the Number of groups to display per page property of the Group By option to 2,500 items.
- D. Set the Number of items to display property of the Item Limit option to 2,500 items.

**Answer: B**

90. You are designing a SharePoint 2010 application. You are also designing a Microsoft .NET Framework client application that will interact with the SharePoint application.

You need to design the client application to create, update, and delete lists.

Which approach should you recommend?

- A. Use the SP.UI.UIUtility class in the client application.
- B. Use SharePoint 2010 Web services in the client application.
- C. Use the SharePoint Foundation 2010 managed client object model in the client application.
- D. Create a Business Connectivity Services (BCS) package that manages tasks between the client and server applications.

**Answer: C**

91. You are designing a SharePoint 2010 application that has more than 7,000 items in a list named Customers. Resource throttling is used to specify a list view threshold of 5,000.

You have a requirement to ensure that users in a domain group named Customer Auditors are allowed to



perform operations on all items via a custom application.

You need to design the application to meet the requirements.

Which approach should you recommend?

- A. Grant Full Read permissions to the Customer Auditors group.
- B. Add the Customer Auditors group to the Site Owners group.
- C. Add the Customer Auditors group to the Administrators group on each Web front-end server.
- D. Add the Customer Auditors group to the Administrators group on the Central Administration server.

**Answer: C**

92. You are designing a SharePoint 2010 application.

You need to make sure the application aggregates list items from multiple site collections into a single view.

Which object should you recommend to accomplish this?

- A. SPListItemCollection
- B. SPSiteDataQuery
- C. SPQuery
- D. KeywordQuery

**Answer: D**

93. You are designing the environment for a SharePoint 2010 server farm.

You need to design the environment to meet the following requirements:

- SharePoint must log critical error messages to the Windows Event Log.
- To save log space, duplicate error messages must not be logged.

Which approach should you recommend?

- A. Restrict the Trace Log disk usage space to 1 GB.

B. Enable Event Log Flood Protection.

C. Find the error category and set the "Least critical event to report to the event log" value to "Warning" for that category.

D. Find the error category and set the "Least critical event to report to the trace log" value to "None".

**Answer: B**

94. Your developers have discovered an issue with a SharePoint 2010 application. The code has produced an exception and SharePoint has rendered an error page in the browser. The error page displays a Correlation ID and the time when the error occurred.

You need the developers to investigate the problem by viewing logged exception messages.

What are two possible ways to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

A. Open the SharePoint content database. Filter the EventLog table for rows with an EventTime column value the same as the time shown on the error page and with an EventData column value equal to the Correlation ID found on the error page.

B. Open the Application Event Log on the server. Filter the events for an exception that occurred at the time shown on the error page, and with a Source value equal to the Correlation ID found on the error page.

C. Search for an exception in the SharePoint Unified Logging Service (ULS) logs with the same Correlation ID and time stamp displayed on the error page.

D. Use the PowerShell get-splogevent command, passing in the Correlation ID as a parameter, which will return a list of items in the ULS log with the same Correlation ID. Look for an exception that occurred at the time shown on the error page.

**Answer: CD**

95. Your development team has asked you to help them determine the cause of an error in a document conversion in SharePoint 2010. Your team has checked the Unified Logging Service (ULS) and Event logs, but cannot find the error.

You need to direct them to discover more information in the ULS and Event logs to help identify the error.

Which approach should you recommend?

- A. Examine the ULSTraceLog view in the SharePoint logging database.
- B. Disable the Event Log Flood Protection property and test the conversion again.
- C. Adjust the throttling of document conversion events and test the conversion again.
- D. Adjust the trace log disk space usage setting and test the conversion again.

**Answer: C**

96. You are creating a plan to add new functionality into a SharePoint 2010 farm. Several artifacts must be created to provide the new capabilities.

The artifacts required include the following:

- A custom site definition with company branding
- .A Web Part to provide a graph of business statistics
- .Custom code to calculate the business statistics

Your plan needs to include a process to create and deploy the new functionality.

Which approach should you recommend?

- A. Define the new site definition, including the company branding and all the required artifacts. Create a site using this new site definition.
- B. Define a site template built on a new site definition, which includes the company branding. Implement it on the site that includes the new artifacts. Reset IIS.
- C. Develop and test the required artifacts. Build the artifacts into a solution package. Deploy the solution package to the farm.
- D. Build the company branding and the new artifacts into a feature. Staple the new feature to an existing site definition in the farm. Reset IIS.

**Answer: C**

97. You are creating a plan to add new functionality to an existing application in a SharePoint 2010 farm.

The original application uses a site definition for site creation.

Your plan needs to specify how to deploy the new functionality to meet all these requirements:

- The new functionality must include a Web Part that displays sales statistics and graphs.
- .New sites that use the site definition must contain the new Web Part.
- .The new functionality must be added to several existing sites.
- .Deploying the new functionality must not disrupt the current functionality of the sites.

Which two actions should you recommend? (Each correct answer presents part of the solution. Choose two.)

- A. Build the new Web Part into a feature and deploy it to the farm. Activate the feature on all the existing sites that require the new functionality.
- B. Create a new site template that includes the new Web Part. Use this template to add the new functionality to all sites that require it.
- C. Create a new site definition that includes the feature. Regenerate the existing sites that require the new functionality using this site definition.
- D. Create a new feature containing the Web Part. Staple the feature to the site definition that was used to create the existing sites.

**Answer:** AD

98. The development team you manage has added new functionality to an application in the development environment that improves the application currently running in the production SharePoint 2010 farm. The added functionality includes several custom Web Parts.

You need to create a plan to add the new functionality to the existing production SharePoint 2010 farm.

Which approach should you recommend?

- A. Create a new application that includes the Web Parts and deploy it to the farm as a .wsp package.
- B. Export the site hosting the Web Parts as a .stp template file. Change the template file and import the .stp file back into the production farm.
- C. Build the new functionality into a feature and use the Stsadm Upgrade command to update the

application in the farm.

D. Build the new functionality into a feature in a new solution package and deploy it to the production farm.

**Answer: D**

99. You have designed a new SharePoint 2010 Web Part that was deployed to the testing environment. A tester has reported that clicking a custom button in the Web Part has no effect in the browser.

You need to ensure that the button works as designed.

Which approach should you recommend?

A. Set the Load User Profile property to False in the SharePoint Central Administration v4 application pool. Then restart IIS.

B. Verify that JavaScript is enabled in the tester's browser and that User Account Control is not causing the issue.

C. Enable the Full Control permission policy level in the Manage Permission Policy Levels dialog box.

D. Clear the browser cache on the tester's machine and reopen the browser.

**Answer: B**

100. You have a SharePoint 2010 farm that has one existing Web application. You have designed a new Web application.

After the Web application is implemented, you immediately navigate to the URL. An error is returned saying the page cannot be found.

You need to ensure that when users navigate to the URL of the new Web application, the standard SharePoint 2010 landing page is displayed.

Which approach should you recommend?

A. Ensure that the Start Automatically property is set to True in the application pool under which the URL of the new Web application runs.

B. Ensure that the Application \_Layouts pages reference site master pages property is set to Yes in the Web Application General Settings dialog box of the new Web application.

C. Enter the URL of the new Web application in the Add a New Path property in the Define Managed Paths dialog box of the new Web application.

D. Create a new site collection associated with the URL of the new Web application.

**Answer: D**

101. Your development team has discovered that a SharePoint 2010 application has performance issues.

The application is experiencing periodic application pool recycling due to memory thresholds being exceeded.

You need to determine the cause of this behavior.

Which logs should you tell your team to analyze?

A. Analyze the IIS logs for entries related to SPPersistedObject objects.

B. Analyze the IIS logs for entries related to SPRequest objects.

C. Analyze the Unified Logging Service (ULS) logs for entries related to SPPersistedObject objects.

D. Analyze the ULS logs for entries related to SPRequest objects.

**Answer: D**

102. You are designing a Windows application that accesses information stored on a SharePoint 2010 intranet site. The application displays employee information in a data grid sourced from a list on the Human Resources site.

To filter and manipulate the employee details list, the design includes a class to cache the data that is accessed. The class keeps the SPWeb object open, but only retrieves data that is not already cached.

You need to ensure proper memory utilization and resource management for the application.

Which approach should you recommend?

A. Implement the class with the IDisposable interface and allow the .NET Framework garbage collector to automatically manage the SPWeb object disposal.

B. Implement the class with the IDisposable interface and explicitly dispose of the SharePoint SPWeb object when you are finished using it.

C. Implement the class as a fully managed .Net Framework object and allow the .NET Framework garbage collector to automatically manage the SPWeb object disposal.

D. Implement the class as a fully managed .Net Framework object and explicitly manage the SPWeb object using the ISPerformanceMonitor interface.

**Answer: B**

103. You are asked to analyze a SharePoint 2010 system that is experiencing performance problems, especially under heavy loads. The system contains multiple custom Web applications and third-party Web Parts.

The performance problems are exhibiting the following symptoms:

- The application pool recycles frequently.
- .The system experiences slow client response times.
- .The system experiences excessive page faults.

You need to identify a possible source of these performance issues and suggest a way to verify your analysis.

What should you do?

- A. Propose that the custom code in the third-party application is not disposing of its objects properly, and verify the theory by checking the Unified Logging Service (ULS) logs for entries related to the SPRequest object.
- B. Propose that the paging file size is too large, and verify the theory by using the System Monitor to see if the % Usage counter for the paging file is 50% or less.
- C. Propose that the application pool recycle setting should be changed to recycle less frequently and verify the theory by retesting the system to verify improved performance.
- D. Propose that the application be moved to a server with a faster disk system that supports fault tolerance and retest the system to verify improved performance.

**Answer: A**

104. You are designing a SharePoint 2010 application. The code makes numerous calls to SPSite and

SPWeb objects.

The system and application performance is poor in the test environment. There is also a high level of memory use for IIS worker processes.

You need to ensure that the application performance and high memory use issues are addressed.

Which approach should you recommend?

- A. Use the Resource Throttling settings in Central Administration to increase site resource thresholds.
- B. Use the SPSite and SPWeb SharePoint 2010 PowerShell cmdlets.
- C. Ensure that the Dispose method of SPSite and SPWeb is called throughout the code.
- D. Ensure that the Close method of SPSite and SPWeb is called throughout the code.

**Answer: C**

105. You are designing a SharePoint 2010 application that contains a single list named UserData.

You need to design the application to meet these requirements:

- The application must have a drop-down menu that contains key-value pair data.
- The data in the drop-down menu must be retrieved from a Microsoft SQL Server 2008 table.

Which two actions should you recommend? (Each correct answer presents part of the solution. Choose two.)

- A. Create a new list that links to the external SQL Server table.
- B. Create a new list that has an external data column. Set the source of this column to the external SQL Server table.
- C. Create a managed metadata column on the UserData list. Add the data from the SQL Server table to this column.
- D. Create a lookup column on the UserData list that gets its information from an external list.

**Answer: AD**

106. You are designing a SharePoint 2010 application.



You need to design a list that displays only data from contacts stored in Microsoft Office Outlook 2010.

Which approach should you recommend?

- A. Create a list with an external data column. Set the External Content Type of this column.
- B. Create an external list. Create an external content type based on the external list and set the Office Item Type.
- C. Create an external content type and set the Office Item Type. Create an external list from the external content type.
- D. Export the contact list in Outlook 2010. Create a new external list based on the exported data file.

**Answer: C**

107. You are designing a SharePoint 2010 application. A Windows Communication Foundation (WCF) service provides a connection to company information.

You need to design a list that gets its data from the WCF service.

Which approach should you recommend?

- A. Create an external content type and set the External Data Source Type to WCF Service. Create a list that uses this external content type as its source.
- B. Create an external content type and set the External Data Source Type to .NET Type. Create a list that uses this external content type as its source.
- C. Create an external list and set the External Content Type property to the URL of the WCF service.
- D. Create an external list and set the External Content Type property to the Web Service Definition Language (WSDL) file of the WCF service.

**Answer: A**

108. You are designing a SharePoint 2010 application that displays information from an external database.

You need to develop the application to meet the following requirements:

- Remote connections to the external database are not allowed.

.Data from multiple tables must be joined into a single list.

.The list must be synchronized with the external database.

Which approach should you recommend?

A. Build a Web service to manage each table, and use the SPQuery object to join the data fields into a single list.

B. Build a Web service to manage each table, use Business Connectivity Services (BCS) to import the individual tables into lists, and then create a new list that joins these external lists together.

C. Build a Web service to join the data fields into a single list, and use BCS to synchronize the list with the external database.

D. Build a Web service to join the data fields into a single list, and implement event receivers to synchronize the list with the external database.

**Answer: C**

109. Your company uses a third-party service to host its SharePoint 2010 site. The hosting service requires all sites to be sandboxed and uses forms-based authentication (FBA).

You are asked to integrate the customer relationship management (CRM) data that is stored within your company's domain into the SharePoint site. The CRM data is trimmed based on the user token and is made accessible via Web services.

You need to display the CRM data in the correct way for each user token.

Which approach should you recommend?

A. Connect to the CRM system using Business Connectivity Services (BCS) with WindowsCredentials set as the authentication mode. Use the Secure Store Service to map FBA credentials to domain credentials.

B. Connect to the CRM system using BCS with PassThrough set as the authentication mode. Use the Secure Store Service to map FBA credentials to domain credentials.

C. Connect to the CRM system using BCS with RevertToSelf set as the authentication mode. Use the Secure Store Service to map FBA credentials to domain credentials.

D. Prompt users for their domain credentials and make a call to the web services using these domain credentials.

**Answer: A**

110. You are designing an architectural firm's SharePoint 2010 environment. In order for the firm to bid on a new project, it must submit a detailed proposal that specifies exactly what kind of services they will offer and how much those services will cost.

Different people must be able to work on separate parts of the proposal document simultaneously. The document must be generated quickly in order to increase the firm's chances of getting the project. Employees who are working on the document are using Microsoft Word 2010.

Your design needs to satisfy these requirements using no custom development.

Which approach should you recommend?

A. Add the new Word document to a SharePoint document library. Configure a sequential workflow with the built-in document approval workflow, which allows each author to add and edit text until the document is complete.

B. Add the new Word document to a SharePoint document library and allow the appropriate people to co-author the document until it is complete.

C. Create a SharePoint list for the document, where each list item corresponds to a section of the document. Allow people to add one or more sections of the document to the list. Create a Word add-in that retrieves content from the list and uses OpenXML to generate a Word document.

D. Create an external database to store sections of the document. Create an external SharePoint list that connects to the database using Business Connectivity Services. Allow people to add one or more sections of a document to the external list. Create a Word add-in that retrieves content from the database and uses OpenXML to generate a Word document.

**Answer: B**

111. You are designing a SharePoint 2010 intranet site.

Employees are responsible for recording their daily activities, which are stored in a third-party database. To accurately track Web traffic on the site, the IT administrator has requested that only one form be available from only one URL.

You need to design an input form that employees can use from SharePoint.

Which approach should you recommend?

- A. Create an InfoPath Web-enabled form that submits data directly to the third-party database. Publish the form to a SharePoint form library where users can access the form.
- B. Create a Silverlight Web Part that submits data directly to the third-party database. Add the Web Part to a single Web Part page that employees can access on the site.
- C. Create an application page that submits data directly to the third-party database. Deploy the application page to the \_layouts directory using a solution package.
- D. Connect to the third-party database using Business Connectivity Services. Create an external content type, and then create an external list based on that content type. Allow users to enter their activities by adding new items to the list.

**Answer: D**

112. You are designing a public-facing SharePoint 2010 Web site for an elementary school that has many events each year. School administrators plan events for students and their parents.

You need to create a design for meeting the following requirements:

- Parents must be able to log on to the site and sign up for events electronically, regardless of the software they have installed on their computers or the browsers they are using.
- .Each event registration needs to be saved in a list or library on the site.
- .School personnel responsible for making changes need to be able to customize each new event registration form with images and text.

Which actions should your design specify? (Each correct answer presents a complete solution. Choose two.)

- A. Create a new document library for each event. Then customize the Word document template for that new library. Ask parents to fill out a new Microsoft Word document for each event and upload it to the document library.
- B. Create a new InfoPath 2010 form for each event. Then publish the form to a new form library with InfoPath Forms Services enabled. Create a custom Submit option so that when parents submit the form, the completed form is saved to the library. Ask parents fill out the form in their browser.
- C. Create a new list for each event. Use InfoPath 2010 to create a new registration form and customize it

for each new event. Ask parents to fill out the form to register for an event. When parents submit the form, their information is saved as a new list item in the list.

D. Create a new list for each event. Use Microsoft Silverlight to create a new registration form and host the Silverlight control in a Web Part on the site. Ask parents to fill out the form to register for an event. Configure a data connection on the Web Part that will submit the form information to the new event list.

**Answer:** BC

113. You are designing a data capture approach for a SharePoint 2010 intranet site.

You need to specify the data capture design elements in the user interface to meet the following requirements:

- The site must provide data-entry forms for users to update list data.
- The users should be allowed to take the submission form offline.

Which approach should you recommend?

- A. Design InfoPath 2010 client forms and deploy them to a SharePoint library for data entry and submission.
- B. Design InfoPath 2010 browser-based forms and deploy them with InfoPath Forms Services to SharePoint 2010 for data entry and submission.
- C. Design custom ASP.NET form pages and deploy them under the \_layout folder. Use ASP.NET form pages for data entry and submission.
- D. Design SharePoint lists and allow users to enter and submit data.

**Answer:** A

114. You are designing a SharePoint 2010 site for your organization to capture customer contact information. The contact information for customers is stored in a Microsoft Dynamics CRM 4.0 database.

You need to design a solution with no custom code that meets the following requirements:

- Sales department employees must be able to perform create, retrieve, update, and delete (CRUD) operations for their customer information records on the SharePoint site.

.The data in the SharePoint site must be synchronized with the data in the CRM Dynamics database because most customers do not have direct access to the CRM system.

.SharePoint users from the Sales department must be able to work with data while they are working offline.

Which approach should you recommend?

A. Create client and browser-based forms with Microsoft Office InfoPath 2010. Deploy the forms using SharePoint Form Services to provide all CRUD operations.

B. Create an external content type for the contact list from the CRM system in SharePoint using Business Connectivity Services. Create InfoPath client forms for CRUD operations. Create a SharePoint 2010 workspace to synchronize the offline data.

C. Create custom Microsoft ASP.NET form pages for CRUD operations. Create a Microsoft SQL Server connection to the CRM system. Create a farm-scoped solution and deploy it in the \_layouts folder to provide access to the data on the SharePoint site.

D. Create a custom content type in the contact list of the SharePoint site that connects to the CRM system. Create Web forms to synchronize the contact list in the CRM system to the contact list in SharePoint.

**Answer: B**

115. The IT, human resources, and legal departments in a large company each have site collections that run in separate Web applications in a SharePoint 2010 server farm.

You need to design a SharePoint information architecture that will meet the following requirements:

·All departments should use a consistent set of keywords.

.Certain enterprise keywords must be shared across all departments.

.The keywords should be managed dynamically.

.The keywords should be globally available to SharePoint service applications.

.The keywords should be able to be managed programmatically.

.The keywords management must use standard services and be maintained with built-in SharePoint 2010 administration tools.

Which approach should you recommend?

- A. Programmatically connect each Web application for all departments to the Global Managed Metadata shared service containing the common enterprise keywords.
- B. Programmatically add the site collection containing the common enterprise keywords list to the Web applications for all departments.
- C. Create a managed metadata term set of all of the common enterprise keywords and deploy it as a feature to the farm. Programmatically activate the feature in the Web application for all departments.
- D. Create a managed metadata term store of all of the common enterprise keywords and deploy it as a feature to the farm. Programmatically activate the feature in the Web application for all departments.

**Answer: A**

116. You are helping a corporate IT department create a SharePoint 2010 information architecture plan. You are creating guidelines for determining the site structure for new sites within all other departments in the corporation.

The IT department must be able to:

- .Adjust the physical storage capacity required for each department and create chargebacks based on the amount of database storage used.
- .Assign storage quotas at the departmental level.
- .Create site usage reports at the departmental level.

You need to design an information architecture structure that meets all these requirements.

On which SharePoint structure should you base each department design?

- A. custom site definitions
- B. custom site templates
- C. individual site collections
- D. individual subsites

**Answer: C**

117. You are designing a SharePoint 2010 server farm that consists of multiple site collections that share

enterprise-wide content types. The content types are updated on a monthly basis to ensure proper governance. The farm uses a managed metadata service application.

You need to ensure that all the site collections automatically receive the updated content types in the most efficient manner and with the least amount of custom development.

Which approach should you recommend?

- A. Configure Content Type Syndication to update the central site collection as changes are made to each individual site collection.
- B. Configure Content Type Syndication to update the individual site collection lists as changes are made to a central site collection.
- C. Create an event receiver in a central site collection that sends updates to the individual site collections as changes are made.
- D. Create an event receiver in each individual site collection that sends updates to the central site collection as changes are made.

**Answer: B**

118. You are designing a SharePoint 2010 application.

The application must populate a site column based on data from an existing Microsoft SQL Server 2008 table. This table contains metadata information that is structured in a key-value pair.

You need to design a column type that meets the requirements.

Which type of column should you design?

- A. Business Data
- B. External Data
- C. Lookup
- D. Managed Metadata

**Answer: B**

119. You are designing a SharePoint 2010 application.



You need to design the application according to the following requirements:

- The application must contain a workflow that can be started manually through the SharePoint user interface or through a call to `SPWorkflowManager.StartWorkflow`.
- .The workflow must not be associated with a specific list or a document library.

Which approach should you recommend?

- A. Set the Site Scope property in Workflow Settings to enable the workflow across the entire site.
- B. Create a reusable declarative workflow.
- C. Create a sequential site workflow.
- D. Create a sequential list workflow.

**Answer: C**

120. You are directing your team to use Microsoft Visio 2010 to design SharePoint 2010 workflows.

You need to ensure that the workflow designs are validated.

What should you tell the team to do?

- A. Use Drawing Explorer in the Visio 2010 Developer menu.
- B. Use Check Diagram in the Visio 2010 Process menu.
- C. Export the workflow in Visio 2010. Import the Workflow Visio Interchange (.vwi) file into Visual Studio 2010. Set breakpoints in the workflow and step through the code using the debugger.
- D. Export the workflow in Visio 2010. Import the Workflow Visio Interchange (.vwi) file into SharePoint Designer and debug the workflow.

**Answer: B**

121. You are designing a SharePoint 2010 workflow that will be used to monitor invoices.

The workflow has the following requirements:

- Invoices may have a status of Submitted, Reviewed, Rejected, Returned for Revision, or Approved.

.Not every status applies to every invoice.

You need to design the workflow to monitor the status of the invoices as they are processed.

Which approach should you recommend?

A. Use Visio 2010 to create the workflow. Select the Set Workflow Status shape and configure it to execute when the status of an invoice changes.

B. Use Visio 2010 to create the workflow. Before each status action, add a Start shape to initiate the workflow action.

C. Use SharePoint Designer 2010 to create a reusable declarative workflow.

D. Use Visual Studio 2010 to create a state machine workflow.

**Answer: D**

122. You are designing a custom workflow for a SharePoint 2010 solution. You need to specify which type of workflow form to use.

The requirements for the form are:

·Specify the main list, library, or content type that the workflow will affect.

·Provide a form to display the Add a New Workflow page.

·Provide the form where the administrator can specify settings common to all workflows, such as the workflow definition and initiation conditions, and whether the workflow runs on items or folders, or both.

You need to specify which type of workflow form should be used for each phase of the workflow process to meet all these requirements.

Which form should you recommend?

A. association

B. initiation

C. modifications

D. task

**Answer: A**

123. You are designing a custom workflow for the Human Resources department. The workflow will add the business logic for hiring approval to a SharePoint 2010 Web application.

The requirements specify that the workflow must:

- Be used to manage the hiring approvals for the employee new-hire lists on all department sites.
- .Encapsulate all of the required business logic for the approval process.
- .Make changes to list data that requires higher privileges than the user initiating the workflow might possess.

You need to design the workflow to meet all these requirements.

Which approach should you recommend?

- A. Add the business logic to an assembly and deploy it to the global assembly cache.
- B. Add the business logic to an assembly and place it in the \_app\_bin directory of the Web application.
- C. Add the business logic as a declarative workflow and run it using the SharePoint system account.
- D. Create custom actions that specify the business logic and then add the actions to the Web application.

**Answer: A**

124. You are designing a SharePoint 2010 application.

You need to design a single feature that includes content types, fields, modules, and list instances.

Which scope should you design?

- A. farm scoped
- B. site scoped
- C. WebApplication scoped
- D. Web scoped

**Answer: B**

125. You are designing a SharePoint 2010 application.

You need to provision a custom document converter for the application.

Which scope should you design?

- A. farm scoped
- B. site scoped
- C. Web scoped
- D. WebApplication scoped

**Answer: D**

126. You are designing a SharePoint 2010 intranet site for your company.

Your design needs to meet the following requirements:

- A SharePoint feature (feature A) must make a custom list definition available for the entire site collection.
- Another SharePoint feature (feature B) must provision an instance of that custom list definition in the particular site where the feature is activated.

Which approach should you recommend?

- A. Set the scope of feature A to Web and the scope of feature B to Site. Add feature A to the set of Activation Dependencies in feature B.
- B. Set the scope of feature A to Web and the scope of feature B to Site. Add feature B to the set of Activation Dependencies in feature A.
- C. Set the scope of feature A to Site and the scope of feature B to Web. Add feature A to the set of Activation Dependencies in feature B.
- D. Set the scope of feature A to Site and the scope of feature B to Web. Add feature B to the set of Activation Dependencies in feature A.

**Answer: C**

127. You are designing a SharePoint 2010 feature that will be included in a solution package.

You have added a feature receiver to your feature.

You need to ensure that the code in the feature receiver executes when the solution package is deployed to the Web front-end servers.

Which approach should you recommend?

- A. Add your code to the FeatureInstalled method of the feature receiver.
- B. Add your code to the FeatureActivated method of the feature receiver.
- C. Add a FeatureInstalled node referencing the feature receiver assembly to the solution manifest file.
- D. Add a FeatureActivated node referencing the feature receiver assembly to the solution manifest file.

**Answer: A**

128. You are designing a SharePoint 2010 solution that includes a custom site definition and a custom master page.

The solution has the following three features:

- A hidden site-scoped feature named X that adds the custom master page to the Master Page gallery.
- A Web-scoped feature named Y with a feature receiver that sets the master page of the Web to the master page from feature X.
- A Web-scoped feature named Z with a feature receiver that populates the default.aspx file with sample content.

Any Web site that is created based on the solution's custom site definition must have the master page and the sample content applied to it automatically.

Your design must ensure that features X, Y, and Z can be activated in the proper order.

Which approach should you recommend?

- A. Include features X, Y, and Z in that order in the onet.xml file for the site definition.
- B. Include a user control in the custom master page to activate feature Z the first time the page is rendered, and include features X and Y in the onet.xml file for the site definition.
- C. Set feature dependencies so that feature X is dependent upon feature Y and feature Y is dependent upon feature Z, and then use feature stapling to attach feature X to the site definition.

D. Set feature dependencies so that feature Y is dependent upon feature Z, and then use feature stapling to attach features X and Y to the site definition.

**Answer: B**

129. You have a SharePoint 2010 intranet site with a site collection for all team projects.

Each team project site is created from a custom team project site definition. These sites are created with a standard list to help manage team projects. Each list can be modified as needed for each site.

You are asked to design two features:

- A feature named X for the list template
- A feature named Y for creating an instance of the list

You need to ensure that the list template is installed before the list instance.

Which approach should you recommend?

- A. Set the scope of feature X to Web and the scope of feature Y to Site. Set feature X as an activation dependency for feature Y.
- B. Set the scope of feature X to Site and the scope of feature Y to Web. Set feature Y as an activation dependency for feature X.
- C. Set the scope of feature X to Site and the scope of feature Y to Web. Set feature X as an activation dependency for feature Y.
- D. Set the scope of feature X to Web and the scope of feature Y to Site. Set feature Y as an activation dependency for feature X.

**Answer: C**

130. A company with offices worldwide has asked you to design a SharePoint 2010 feature for an intranet portal.

The feature must:

- Be activated only on a site collection.
- Contain a customized list template.

.Contain a custom List page.

.Use globalized resources that can be shared with other features.

You need to design the feature to support all these requirements.

Which approach should you recommend?

A. Use the Scope attribute of the feature to limit the availability of the feature to a site collection. Then set the RequireResources element to true. Store globalized resources in a file in a global document library.

B. Use the Scope attribute of the feature to limit the availability of the feature to a site collection. Then use the Module element in the feature to provision a file into the SharePoint 2010 site. Store shared resources in the \web server extensions\14\Resources folder.

C. Use the Scope attribute of the feature to limit the availability of the feature to a farm. Then use the Module element to provision a file into the SharePoint site. Store shared resources in the \\_catalogs folder.

D. Use the Module element in the feature to limit the availability of the feature to a site collection. Then set the RequireResources element to true. Store shared resources in the \web server extensions\14\Resources folder.

**Answer: B**

131. You are designing multiple SharePoint 2010 features.

You have the following requirements:

·There must be three features, named Feature\_1, Feature\_2, and Feature\_3.

.Feature\_1 must be dependent on Feature\_2; Feature\_2 must be dependent on Feature\_3.

.Feature\_1 must be available to a site collection named Finance.

You need to ensure that your feature design meets these requirements and follows the SharePoint Feature Activation Dependency Rules.

Which approach should you recommend?

A. Design Feature\_1 and Feature\_2 as visible; design Feature\_3 as a hidden feature.

Set the scopes for Feature\_1, Feature\_2, and Feature\_3 to Site.

B. Design Feature\_1 and Feature\_2 as visible; design Feature\_3 as a hidden feature.

Set the scopes for Feature\_1 and Feature\_2 to Site. Set the scope for Feature\_3 to Web.

C. Design Feature\_1 and Feature\_2 as visible; design Feature\_3 as a hidden feature.

Set the scope for Feature\_1 to WebApplication. Set the scopes for Feature\_2 and Feature\_3 to Web.

D. Design Feature\_1, Feature\_2, and Feature\_3 as visible features.

Set the scopes for Feature\_1 and Feature\_2 to Site. Set the scope for Feature\_3 to Web.

**Answer: A**

132. You are planning to add more features to a SharePoint 2010 farm. Two developers are working independently in a developer environment; each has created a custom solution with a new feature.

You have the following requirements:

- Each new feature that the developers created must share an assembly with an existing feature on the production farm.
- The new features must be deployed from the developer environment to the production environment.
- The possibility must be minimized that an existing application will be unavailable if the assembly needs to be redeployed after a bug fix.
- You must use the fewest solutions possible.

You need to create a deployment plan that meets these requirements.

Which approach should you recommend?

- A. Create one solution that combines the two new features with the existing feature and deploy the solution to the production farm.
- B. Create two solutions to deploy the new features and extend the existing solution in the production farm to include the new features.



C. Create a solution for each of the two new features and extend one of the new solutions to include the feature in the other new solution. Then deploy both solutions to the production farm.

D. Create three independent solutions, each consisting of one feature and deploy them separately to the production farm.

**Answer: B**

133. You are designing a solution package for an application project, which has several types of SharePoint 2010 artifacts. Your project contains a Web Part, features, list definitions, assemblies, customized ASPX pages, and workflows.

You have the following requirements:

- You must ensure the security and manageability of the SharePoint applications.

- SharePoint administrators must enforce quota limits on resources consumed. Based on your analysis, the Web Part will exceed the limit.

- You must deploy all of the artifacts with the fewest solutions possible.

You need to create a deployment plan that meets these requirements.

Which approach should you recommend?

A. Create one solution package that contains all of the artifacts in the development project.

B. Create two solution packages:

- A farm-scoped solution that contains the Web Part

- A solution that contains all the remaining artifacts in the project

C. Create two solution packages:

- A sandboxed solution containing the Web Part

- A solution that contains all the remaining artifacts in the project

D. Create three solution packages:

- A solution for list definitions

- A solution containing the Web Part and its related assemblies

.A solution for customized ASPX pages and workflows

**Answer: C**

134. You are designing a SharePoint 2010 solution package that includes a feature.

The feature should be available for activation in only those site collections contained within specified Web applications in the farm.

You need to design your solution package to ensure this behavior.

Which approach should you recommend?

- A. Create a sandboxed solution and set the scope of the feature to WebApplication.
- B. Create a sandboxed solution and set the scope of the feature to Site.
- C. Create a farm solution and set the DeploymentTarget property of the feature assembly to GlobalAssemblCache.
- D. Create a farm solution and set the DeploymentTarget property of the feature assembly to WebApplication.

**Answer: D**

135. You work for a software company that sells Web Parts to customers. You designed the first version of a Web Part named Weather 1.0. The company has already sold several hundred licenses of the Web Part.

You designed a new solution package for Weather 2.0. Some customers who are already using Weather 1.0 will install Weather 2.0 in the same Web application as Weather 1.0.

You need to design your package so that the functionality of Weather 1.0 will not be affected by the installation of Weather 2.0 in the same Web application.

Which approach should you recommend?

- A. Use the same assembly name and namespace for Weather 2.0 that you used for Weather 1.0. Create a new .webpart file. Increment the version number in the .webpart file.
- B. Use the same assembly name and namespace, but increment the version number of the assembly package. Use the same .webpart file that you used for Weather 1.0.

C. Use the same assembly name and namespace, but increment the version number of the assembly package. Configure assembly binding redirection from version 1.0 of the assembly to version 2.0. Use the same .webpart file that you used for Weather 1.0.

D. Use the same assembly name and namespace, but increment the version number of the assembly package. Create a new .webpart file.

**Answer: D**

136. You are designing a SharePoint 2010 application.

You have a requirement to allow access to a Microsoft Windows .NET Framework assembly across multiple Web applications in a farm. An assembly element has been added to the solution manifest (manifest.xml).

You need to ensure that the deployment of the assembly meets the requirements.

Which approach should you recommend?

A. Specify a DeploymentTarget of GlobalAssemblyCache.

B. Specify a DeploymentTarget of WebApplication.

C. Specify a Location of GlobalAssemblyCache.

D. Specify a Location of WebApplication.

**Answer: A**

137. You are designing a SharePoint 2010 application.

You need to plan the deployment of a user control named MyControlTemplate.ascx as a control template.

What should be added to the solution manifest (manifest.xml) to achieve this goal?

A. Add a TemplateFile element, specifying a Location of MyControlTemplate.ascx.

B. Add a TemplateFile element, specifying a Location of ControlTemplates\MyControlTemplate.ascx.

C. Add a RootFile element, specifying a Location of MyControlTemplate.ascx.

D. Add a RootFile element, specifying a Location of ControlTemplates\MyControlTemplate.ascx.

**Answer: B**

138. You are designing a SharePoint 2010 application that will deploy a Web Part assembly.

You need to specify which element to add to the solution manifest (manifest.xml) to meet the following requirements:

- The Web Part must retrieve data from an external database but must not require a custom access policy.
- The company's security policies specify that all SharePoint Web applications must run at minimal trust.

Which approach should you recommend?

- A. Add a DwpFile element and an Assembly element specifying a DeploymentTarget of GlobalAssemblyCache.
- B. Add a DwpFile element and an Assembly element specifying a DeploymentTarget of WebApplication.
- C. Add a SafeControl element within an Assembly element specifying a DeploymentTarget of GlobalAssemblyCache.
- D. Add a SafeControl element within an Assembly element specifying a DeploymentTarget of WebApplication.

**Answer: C**

139. You are planning an upgrade to a SharePoint 2010 site that contains a feature named MyOriginalCapability. The MyOriginalCapability feature has a version number of 1.0.0.0 but the feature is not yet activated.

The new feature is named MyEnhancedCapability and depends on the capabilities of the feature MyOriginalCapability. Your plan must include activation of the MyOriginalCapability feature.

You need to plan the deployment of the new feature.

What should your plan for the upgrade include?

- A. incrementing the Version attribute of the MyOriginalCapability feature from 1.0.0.0 to 2.0.0.0
- B. incrementing the Version attribute of the MyOriginalCapability and MyEnhancedCapability features from 1.0.0.0 to 2.0.0.0

C. an ActivationDependency element and UpgradeActions element in the MyEnhancedCapability feature that references the MyOriginalCapability feature

D. an ActivationDependency element and UpgradeActions element in the MyOriginalCapability feature that references the MyEnhancedCapability feature

**Answer: C**

140. You are planning an upgrade to a SharePoint 2010 site that contains a feature named MyOriginalCapability. The MyOriginalCapability feature has a version number of 1.0.0.0.

You have the following requirements:

- Update the MyOriginalCapability feature to include new fields.
- Deploy a new feature named MyEnhancedCapability that uses the new fields of the MyOriginalCapability feature.

You need to plan the upgrade to meet the requirements.

Which approach should you recommend?

A. Increment the Version attribute of the MyOriginalCapability feature to 2.0.0.0, and include an activation dependency with a MinimumVersion property of 2.0.0.0 in the MyEnhancedCapability feature.

B. Increment the Version attribute of the MyOriginalCapability feature to 2.0.0.0, and include a VersionRange element with EndVersion set to 2.0.0.0.

C. Increment the Version attribute of the MyEnhancedCapability feature to 2.0.0.0, and include an activation dependency with a MinimumVersion property of 2.0.0.0 in the MyOriginalCapability feature.

D. Increment the Version attribute of the MyEnhancedCapability feature to 2.0.0.0, and include a VersionRange element with EndVersion set to 2.0.0.0.

**Answer: A**

141. You are planning an upgrade to a SharePoint 2010 application.

You have the following requirements:

- Modify an existing workflow to include a new code activity.

.Ensure running instances of the workflow continue to work.

.Ensure new instances of the workflow include the modifications.

You need to plan the upgrade the application to meet these requirements.

After the workflow code is modified, what should your plan specify?

- A. Deploying the code to the global assembly cache (GAC) and deactivating the workflow feature.
- B. Incrementing the version of the workflow assembly, deploying to the GAC, and activating the workflow feature.
- C. Incrementing the version of the workflow assembly, deploying to the GAC, deactivating the workflow feature, and then activating the workflow feature.
- D. Incrementing the version of the workflow assembly, deploying to the GAC, and modifying the appropriate workflow.xml file to reference the new version.

**Answer: D**

142. You have a SharePoint 2010 application deployed in production. The application has a list with a single long-running workflow named VersionA. You design a new version of the workflow named VersionB.

You have the following requirements:

- Existing instances of VersionA must continue to run until completed.
- .VersionB must always be instantiated in the future.
- .VersionA must no longer be instantiated.

You need to design the solution to meet the requirements.

Which approach should you recommend?

- A. Disable the Start this workflow when a new item is created property in the Start Options of VersionA.
- B. Disable the Start this workflow when a new item is created property in the Start Options of VersionB.
- C. Set the No New Instances property in the Remove Workflows settings of VersionA.
- D. Set the Optionally limit the number of versions to retain property in the Versioning Settings of the list.

**Answer: C**

143. In your development environment, you designed new versions of a number of features currently working in a SharePoint 2010 farm. The features are being used throughout the farm at all scope levels.

You need to meet the following requirements:

- All the features on the farm must be upgraded to the newest version.
- .All existing feature instances must be upgraded to the latest version.
- .The sites using the features must experience as little downtime as possible.

Which approach should you recommend?

- A. Deploy all of the features as one solution package to the farm. Specify the new version number for each feature in the current Feature.xml file for the feature. Activate all of the new features at the farm level.
- B. Deploy each of the features in its own solution package to the farm. Specify the new version number for each feature in the current Feature.xml file for the feature. Activate the new features only in the locations where they are currently activated.
- C. Specify the new version number and any upgrade actions required in each of the Feature.xml files. Run Feature upgrade as a solution package on the farm.
- D. Retract the existing versions of the features. Specify the new version number for each feature in a new Feature.xml file for each feature. Deploy the features as a new solution package. Activate the new features only in the locations where they are currently activated.

**Answer: C**

144. You are planning a feature upgrade for a SharePoint 2010 farm. The original feature with a version number of 1.0.0.0 is activated in numerous scopes within the farm. You have designed a new version of the feature, 2.0.0.0, which has been deployed and activated in many locations but not all.

You need to recommend a way to use the object model to determine if the version number of each feature instance is less than the 2.0.0.0 version in all of the locations.

Which approach should you recommend?

- A. Use the object model to update the Version attribute of the feature in the existing Feature.xml file.
- B. Call the QueryFeatures method for each location hosting the feature in the various scopes.

C. Programmatically add an <UpgradeActions> section to the Feature.xml file that specifies the new version number for the feature.

D. Create a feature receiver that calls the Upgrade method of the SPFeatures class for the feature.

**Answer: B**

145. You are designing a custom application to automate the deployment of SharePoint 2010 solutions.

You need to ensure that the application uses Windows PowerShell cmdlets.

Which cmdlet sequence should your application use?

A. Add-SPSolution, then Install-SPSolution.

B. Add-SPUserSolution, then Install-SPUserSolution.

C. Install-SPSolution, then Add-SPSolution.

D. Install-SPUserSolution, then Add-SPUserSolution.

**Answer: B**

146. You are designing a SharePoint 2010 application.

You have a requirement to deploy content between servers that experience frequent interruptions in connectivity.

You need to design a strategy for exporting the content to a package and transporting the package to meet the requirements.

Which approach should you recommend?

A. Create a job to export the content to a package, and then create a job to transport the package.

B. Create a path to export the content to a package, and then create a job to transport the package.

C. Use the Content Migration API to export the content to a package, and then create a path to transport the package.

D. Use the Content Migration API to export the content to a package, and then manually transport the package.



**Answer: D**

147. Your company has an existing SharePoint 2010 public-facing Web site. The Web site runs on multiple load-balanced Web front-ends.

Your company recently changed its name.

You are asked to design a plan to update the Web site content to reflect the company name change. You need to accomplish this with a minimum amount of developer hours and minimum impact on users.

Which approach should you recommend?

- A. Create a PowerShell script to iterate through the site content and make the updates as needed.
- B. Create a custom delegate control with the new company name and copy it to the \14\Config directory of all Web front-end servers. Perform an IISReset on each Web front-end server.
- C. Create a custom application page with the new company name and copy it to the \_layouts directory of all Web front-end servers.
- D. Add a property in the web.config file to store the company name. Then update the master pages and page layouts to return the name from that property.

**Answer: A**

148. You have a public-facing SharePoint 2010 site. The site resides on two Web front-ends that are not load balanced.

You are asked to design an update for a Web Part to the site. The update requires modifications to the code in the global assembly cache (GAC).

You need to design the update with minimal impact to users who are accessing the site.

Which approach should you recommend?

- A. Deploy the update directly to the GAC. Perform an IISReset on each Web front-end.
- B. Deploy the update directly to the GAC. Recycle the application pool for the SharePoint site on each Web front-end.
- C. Deploy the update within a custom Microsoft Windows Installer package that copies the code into the

GAC and performs an IISReset on each Web front-end.

D. Deploy the update in a SharePoint solution file.

**Answer: B**

149. You have multiple SharePoint 2010 sites based on the same site definition.

You need to plan a strategy to update the property value for a Web Part specified in the site definition for all existing sites. You must accomplish this with a minimum of developer hours.

Which strategy should you recommend?

A. Update the site definition to specify the new property for the Web Part and deploy it through a feature to each of the sites.

B. Create a delegate control with the updated value and deploy it through a feature to each of the sites.

C. Copy an update to the Web Part into the global assembly cache (GAC) and perform an IISReset.

D. Use a PowerShell script to iterate through the sites and update the property.

**Answer: D**

150. You have an existing SharePoint 2010 solution consisting of custom Web Parts deployed to the global assembly cache (GAC).

The signing key used for the Web Parts has recently changed.

You need to design an update to the Web Parts without any change to the value settings of their properties.

Which approach should you recommend?

A. Deploy the changes within a SharePoint solution.

B. Copy the changes directly to the GAC and perform an IISReset.

C. Programmatically copy the information from the existing Web Parts to their new versions and then remove the old instances.

D. Update the Web Parts through the Web Part gallery and select the Overwrite if file already exists check

box.

**Answer: C**