Question 1
Which property of the StandardDataFormats class should you use?
You are developing a newsreader app that provides users with daily aggregated articles from popular news sites.
You must allow users to share the URI of the articles.
The app must allow at least one of the following ways to share the URI:
With another Windows Store app
With the user’s default web browser
You need to implement the sharing functionality.
Which property of the StandardDataFormats class should you use?
A. StorageItems
B. Rtf
C. ApplicationLink
D. Text
Correct Answer: D
Explanation/Reference:
StandardDataFormats class (Windows)

Question 2
Which code segment should you insert at line 04?
You are developing a Windows Store app that includes a handler for the onactivated event.
A portion of the event handler is shown in the following code. (Line numbers are included for reference only.)
```
01 WinJS.Application.onactivated = function (eventObject) {
02   if (eventObject.detail.kind === Windows.ApplicationModel.Activation.ActivationKind.launch) {
03     var printManager = Windows.Graphics.Printing.PrintManager.getForCurrentView();
04     eventArgs.setPromise(WinJS.UI.processAll());
05   }
06 }
```
You need to ensure that the app responds to printing requests from the Devices charm.
Which code segment should you insert at line 04?
A. printManager.printer.onprinttaskrequested = onPrint; printManager.printer.showPrintUIAsync();
B. printManager.onPrint = onPrint;
C. printManager.onprinttaskrequested = onPrint;
D. printManager.printer.showPrintUIAsync();
Correct Answer: C
Explanation/Reference:
PrintManager.GetForCurrentView | getForCurrentView method (Windows)

Question 3
Which code segment should you use?
You are developing a Windows Store app that will play video files stored locally on the user’s computer. The app will support the Play To feature.
The app includes a button that must programmatically invoke the Play To flyout when pressed.
You need to ensure that clicking the button displays the Play To flyout.
Which code segment should you use?
A. Windows.Media.PlayTo.PlayToManager.showPlayToUI();
C. Windows.Media.PlayTo.PlayToManager.playTo();
Correct Answer: A
Explanation/Reference:
PlayToManager.ShowPlayToUI | showPlayToUI method (Windows)

Question 4
HOTSPOT
HOTSPOT
You develop a Windows Store app by using JavaScript. The current environment is shown in the following diagram.
A central cloud server must be able to push notifications to all mobile platforms including, but not limited to, Windows 8.x devices and Windows 8 Phones.
You need to configure the environment.
Select the correct answer from each list based on the information presented in the diagram. Each correct selection is worth one point.

**Hot Area:**

**Question 5**
Which project template should you use?
You are developing a Windows Store app by using Microsoft Visual Studio.
The app must use a flat navigation pattern.
You need to start the app development from a built-in Visual Studio project template.
Which project template should you use?
A. Blank App  
B. Grid App  
C. Hub App  
D. Split App

Correct Answer: A

Explanation/Reference:
JavaScript project templates for Store apps (Windows)
Question 6
Which code segment should you insert at line 02?
You are developing a Windows Store app. The app includes a handler for the suggestionsrequested event. The empty event handler is shown in the following code. (Line numbers are included for reference only.)
```javascript
function handlingSuggestionRequest(e) {
  // Code to be inserted at line 02
}
```
The app must meet the following requirements:
Provide an app-defined list of choices in the Search pane that responds to user query text changes.
Provide suggested search topics only when the user enters a query that contains the text "products".
You need to add code to meet the requirements.
Which code segment should you insert at line 02?

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

Correct Answer: B
Explanation/Reference:
SearchSuggestionCollection class (Windows)

Question 7
What should you do?
You develop a Windows Store app that uses a peer-to-peer scenario. You submit the app to the Windows Store. The app fails Windows Store certification.
You need to ensure that the app meets Windows Store certification guidelines.
What should you do?
A. Enable the Proximity capability in the app manifest.
B. In the Settings charm for the app, include a link to the privacy policy.
C. Enable the Shared User Certificates capability in the app manifest.
D. Enable the Location capability in the app manifest.

Correct Answer: B
Explanation/Reference:
App certification requirements for the Windows Store (Windows)

Question 8
HOTSPOT
HOTSPOT
The following image depicts three apps. App1 and App3 have been launched by App2.
Select the correct answer from each list based on the information presented in the image. Each correct selection is worth one point.

**Hot Area:**

**Correct Answer:**

**Explanation/Reference:**

ViewSizePreference enumeration (Windows)

---

**Question 9**
Which event should you listen for?
You develop a Windows Store app. The app is a memory game that displays a 6×6 grid of squares. When the user taps or swipes a square, the square must flip over to display an image. When testing the app, you find that swiping the tile does not cause it to flip over. You need to ensure that the game responds correctly to user input. Which event should you listen for?
A. pointerover
B. pointerenter
C. pointercancel
D. pointerleave

Correct Answer: B

Explanation/Reference:

pointerenter | onpointerenter event (Windows)

---

**Question 10**

**HOTSPOT**

**HOTSPOT**
You are developing a Windows Store game.
The app tile must display the user’s name and current high score.
The following image displays various app tiles.

Select the correct answer from each list based on the information presented in the image. Each correct selection is worth one point.

Hot Area:

Answer Area

Why does Tile 1 not meet the app tile requirements?

The small tile size does not support badges.
The square tile size does not support badges.
The small tile size does not support live notifications.
The square tile size does not support live notifications.

What tile size value does Tile 5 use?

Correct Answer: small

Explanation/Reference:
Guidelines for tiles and badges (Windows)

Question 11
You are developing a Windows Store game.

HOTSPOT
You are developing a Windows Store game. The Menu page displays when the game launches. The Game page displays when you launch a game. The Game page reloads each time the player chooses an incorrect answer.
The following code segment runs each time the user navigates to the Game page. Line numbers are included for reference only.

```
for (var i = 0; i < backMax; i++) {
  if (i < backStack.length) {
    var navState = { backStack: null }; 
    winJS.Navigations.history = navState; 
  }
}
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No. Each correct selection is worth one point.

Hot Area:
**Question 12**
Which code segments should you use?

You are developing a Windows Store app by using HTML5 and JavaScript.
The app defines the following objects:
- `InkManager` is an object to process and manipulate the ink-related data from the stylus.
- `InkContext` is an object to hold the surface context.
- `CurrentPenId` is an object to restrict input processing to one stroke at a time.

The app must support the following requirements:
- Support the use of a stylus input device.
- Begin capturing input when the stylus first touches the screen.
- Render stylus movements in real time.

You need to ensure that the requirements are met.

Which code segments should you use? (To answer, select the correct option from each drop-down list in the answer area.)

**Hot Area:**

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
<th>Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>The back button appears on the Game page the first time the player chooses an incorrect answer.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The back button disappears from the Game page after the player chooses four incorrect answers.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The player can play indefinitely by clicking the back button after choosing a wrong answer.</td>
</tr>
</tbody>
</table>
```javascript
function onStylusDown(evt) {
    var current = evt.currentPoint;
    inkContext.beginPath();
    inkContext.strokeStyle();
    inkContext.lineTo(current.rawPosition.x, current.rawPosition.y);
    inkManager.lineTo(current.rawPosition.x, current.rawPosition.y);
    inkContext.moveTo(current.x, current.y);
    inkContext.lineTo(current.x, current.y);
    inkManager.lineTo(current.x, current.y);
    inkManager.moveTo(current.x, current.y);
    inkContext.beginPath();
    inkContext.strokeStyle();
    inkContext.lineTo(current.rawPosition.x, current.rawPosition.y);
    inkManager.lineTo(current.rawPosition.x, current.rawPosition.y);
    inkManager.moveTo(current.x, current.y);
    inkContext.lineTo(current.x, current.y);
    inkContext.moveTo(current.x, current.y);
    inkManager.strokePath();
    inkManager.processPointerDown(current);
    currentPenId = evt.pointerId;
}
```

```javascript
function onStylusMove(evt) {
    if (evt.pointerId === currentPenId) {
        var current = evt.currentPoint;
        inkContext.beginPath();
        inkContext.strokeStyle();
        inkContext.lineTo(current.rawPosition.x, current.rawPosition.y);
        inkManager.lineTo(current.rawPosition.x, current.rawPosition.y);
        inkManager.moveTo(current.x, current.y);
        inkContext.lineTo(current.x, current.y);
        inkContext.moveTo(current.x, current.y);
        inkManager.strokePath();
    }
}
**Question 13**

What should you do?

You have an enterprise app that has been distributed outside of the Windows Store. The app deployment includes devices that are joined to an enterprise domain and devices that are not.

Installation of the app and all updates are required for all domain-joined devices.

You need to push a critical update to the app.

What should you do?

A. Require a mandatory update in the versioning model.
B. Distribute the update by using group policy.
C. Distribute the update by deploying a resource pack.
D. Deploy an .appxupload file.

Correct Answer: B

**Explanation/Reference:**

App packages and deployments (Windows Runtime apps) (Windows)
Question 15
Which code segments should you use?

You are developing a Windows Store text editor app by using HTML5 and JavaScript.

Users must be able to select text within the app and then cut the text.

You need to enable the Cut feature.

Which code segments should you use? (Each correct answer presents part of the solution. Choose all that apply.)

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

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

Correct Answer: AB  
Explanation/Reference:  
UICommand.UICommand constructors (Windows)

**Question 16**  
Which CSS class should you use?  
You are developing a Windows Store app. The app has an app bar that is defined as shown in the following code segment.  
```html  
<winJS-win-control id="WinJS.UI.AppBar" data-win-options="{layout: 'custom'}" />  
...  
</div>  
```  
You need to style the app bar to match the style of the app.  
Which CSS class should you use?  
A. win-commandlayout  
B. win-surface  
C. win-appbar  
D. win-listview  
E. win-viewport  

Correct Answer: C  
Explanation/Reference:  
WinJS.UI.AppBar object (Windows)

**Question 17**  
HOTSPOT  
HOTSPOT  
You develop a Windows Store app that uses a grid layout. The grid is defined by the following CSS code. Line numbers are included for reference only.  
```css  
01 .squareGrid  
02 {  
03 max-width: 800px;  
04 orientation: landscape;  
05 }  
06 width: 250px;  
07 height: 190px;  
08 overflow: hidden;  
09 padding: 10px;  
10 display: -ms-grid;  
11 ms-grid-columns: auto[4];  
12 ms-grid-rows: (auto)[4];  
13  
14 @media (min-width: 800px) and (orientation: portrait) {  
15 .squareGrid  
16 {  
17 width: 150px;  
18 height: 200px;  
19 overflow: hidden;  
20 padding: 10px;  
21 display: -ms-grid;  
22 ms-grid-columns: auto[5];  
23 ms-grid-rows: (auto)[5];  
24  
25 }  
26 }  
```  
For each of the following statements, select Yes if the statement is true. Otherwise, select No. Each correct selection is worth one point.  
<table>
<thead>
<tr>
<th>Hot Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
</tr>
<tr>
<td>The @media attribute adjusts the display during screen rotation.</td>
</tr>
<tr>
<td>The CSS code distributes rows equally in every screen orientation.</td>
</tr>
<tr>
<td>The CSS code will accommodate every screen size.</td>
</tr>
</tbody>
</table>

Correct Answer:
Question 18
Which code segment should you insert at line 05?
You are developing a Windows Store app. The app includes a handler for the datarequested event. A portion of the code for the event handler is shown in the following code segment:

```javascript
function onDataRequested(e) {
  e.request.data.properties.title = "Order #12345";
  e.request.data.properties.description = "Track your order";
  var url = "http://www.fabrikam.com/?Order=12345";
  e.request.data.url = url;
}
```
The app must meet the following requirements:
The app must share an order tracking link with target apps.
The app must share URI-type data only.
You need to ensure that the app meets the requirements.
Which code segment should you insert at line 05?

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

Correct Answer: C
Explanation/Reference:
Windows.Foundation classes (Windows)

Question 19
Which code segments should you use?
You are developing a Windows Store app. The app allows users to browse contacts from a social networking site. The app has the following requirements:
The user must be able to select more than one contact at a time.
The app must display all of the details for the selected contacts.
You need to ensure that the requirements are met.
Which code segments should you use? (To answer, drag the appropriate code segments to the correct locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)
Select and Place:
**Question 20**

Which code segment should you use?

HOTSPOT

You are developing a Windows Store app.

You need to ensure that a remote file is updated when the app is activated.

Which code segment should you use? (To answer, select the correct option from the drop-down list in the answer area.)

Hot Area:

Windows.ApplicationModel.Contacts.ContactSelectionMode.contacts: Specifies that you want to select the entire contact.

ContactPicker.PickMultipleContactsAsync launches the Contact Picker for selecting multiple contacts.

Incorrect answers:

* ContactPicker.PickSingleContactAsync launches the Contact Picker for selecting a single contact.
* Windows.ApplicationModel.Contacts.ContactSelectionMode.fields: Specifies that you want to select only certain fields.

Reference:

ContactSelectionMode enumeration (Windows)

ContactPicker.PickMultipleContactsAsync | pickMultipleContactsAsync method (Windows)
Question 21
Which navigation member should you use?
You are developing a Windows Store app.
You need to ensure that the app logs pages that are viewed by the user.
Which navigation member should you use?
A. onnavigated  
B. canGoForward  
C. canGoBack  
D. onbeforesend

Correct Answer: A
Explanation/Reference:
ActivationKind enumeration (Windows)

Question 22
Which tab in Visual Studio should you use?
HOTSPOT
You are developing a Windows Store app.
The app must use toast notifications to alert users when the app is operating in the background.
You need configure the app to support toast notifications.
Which tab in Visual Studio should you use? (To answer, select the appropriate tab in the answer area.)
Hot Area:

Correct Answer:
The properties of the deployment package for your application are contained in the application manifest file. You can use this designer to set or modify many of the properties.

Use this page to specify system features or devices that your application can use.

<table>
<thead>
<tr>
<th>Capabilities</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Documents Library</td>
<td>Provides the capability to add, change, or delete files in the Documents Library.</td>
</tr>
<tr>
<td>Enterprise Authentication</td>
<td></td>
</tr>
<tr>
<td>Internet (Client &amp; Server)</td>
<td></td>
</tr>
<tr>
<td>Internet (Client)</td>
<td></td>
</tr>
<tr>
<td>Location</td>
<td></td>
</tr>
<tr>
<td>Microphone</td>
<td></td>
</tr>
<tr>
<td>Music Library</td>
<td></td>
</tr>
<tr>
<td>Pictures Library</td>
<td></td>
</tr>
<tr>
<td>Private Networks (Client &amp; Server)</td>
<td></td>
</tr>
<tr>
<td>Proximity</td>
<td></td>
</tr>
<tr>
<td>Removable Storage</td>
<td></td>
</tr>
<tr>
<td>Shared User Certificates</td>
<td></td>
</tr>
<tr>
<td>Text Messaging</td>
<td></td>
</tr>
<tr>
<td>Videos Library</td>
<td></td>
</tr>
<tr>
<td>Webcam</td>
<td></td>
</tr>
</tbody>
</table>
Question 23
Which Windows library should you use?
You are developing a Windows Store app by using HTML5 and JavaScript.
You need to list all the keyboard, stylus, mouse, and touch input devices that are connected to the local computer system.
Which Windows library should you use?
A. Windows.UI.Input  
B. Windows.Media.Devices  
C. Windows.Devices.Enumeration  
D. Windows.Devices.Input

Correct Answer: D
Explanation/Reference:  
Windows.Devices.Input namespace (Windows)
Question 25
Which code segments should you use?

HOTSPOT
You are developing a Windows Store app by using HTML5 and JavaScript.
The app defines the following objects:
InkManager is an object to process and manipulate the ink-related data from the stylus.
InkContext is an object to hold the surface context.
CurrentPenId is an object to restrict input processing to one stroke at a time.
The app must support the following requirements:
Support the use of a stylus input device.
Begin capturing input when the stylus first touches the screen.
Render stylus movements in real time.
You need to ensure that the requirements are met.
Which code segments should you use? (To answer, select the correct option from each drop-down list in the answer area.)

Hot Area:

```
function onStylusDown(evt) {
    var current = evt.currentPoint;
    inkContext.beginPath();
    inkContext.strokeStyle();
    inkContext.lineTo(current.rawPosition.x, current.rawPosition.y);
    inkContext.lineTo(current.rawPosition.x, current.rawPosition.y);
    inkContext.lineTo(current.x, current.y);
    inkContext.moveTo(current.x, current.y);
    inkManager.processPointerDown(current);
    currentPenId = evt.pointerId;
}
```

```
function onStylusMove(evt) {
    if (evt.pointerId === currentPenId) {
        var current = evt.currentPoint;
        inkContext.beginPath();
        inkContext.strokeStyle();
        inkContext.lineTo(current.rawPosition.x, current.rawPosition.y);
        inkContext.lineTo(current.rawPosition.x, current.rawPosition.y);
        inkContext.lineTo(current.x, current.y);
        inkContext.moveTo(current.x, current.y);
    }
```

Correct Answer:
Question 26
Which navigation member should you use?
You are developing a Windows Store app.
You need to ensure that unauthenticated users are redirected to the login screen when they attempt to navigate to secure pages
Which navigation member should you use?
A. canGoBack
B. onbeforenavigate
C. canGoForward
D. onnavigated

Correct Answer: B
Explanation/Reference:
onbeforenavigate event (Windows)

Question 27
Which code segment should you add?
You are developing a Windows Store app.
Users must be able to initiate searches by using the Search charm. The app must display the search text in a DIV element named searchBox.
You need to add code to meet this requirement.
Which code segment should you add?
Question 28
What should you do?
You are developing two Windows Store apps named CameraApp and PhotoAlbum.
The apps must meet the following requirements:
CameraApp must have access to images on the local computer on which CameraApp is running.
PhotoAlbum must be able to access the images from CameraApp.
You need to configure the deployment package settings for both apps to ensure that the requirements are met.
What should you do?
A. Add the URI of CameraApp to the Content URIs list for PhotoAlbum, and add the URI of PhotoAlbum to the Content URIs list for CameraApp.
B. Add the Pictures Library setting to the list of capabilities for PhotoAlbum, and add the Share Target setting to the list of declarations for PhotoAlbum.
C. Add the Share Target setting to the list of declarations for PhotoAlbum, and add the Pictures Library setting to the list of capabilities for CameraApp.
D. Add the Pictures Library setting to the list of declarations for CameraApp, and add the Share Target setting to the list of capabilities for PhotoAlbum.
Correct Answer: C
Explanation/Reference:
onactivated event (Windows)
ActivationKind enumeration (Windows)
getElementById method (Windows)

Question 29
Which code segment should you use?
You are developing a Windows Store app by using JavaScript. The app will be used to retrieve data from a web service.
The app must retrieve the current date and time in UTC format from the web service by using the URL http://www.treyresearch.net/GetDateTimeinUTC.asmx. Errors must be handled.
You must ensure that data is retrieved successfully.
Which code segment should you use?
Question 30
How should you define the toast notification?

DRAG DROP
You are developing a Windows Store alarm clock app.
When an alarm is triggered, the app must present a toast notification that plays a repeating audio alert until dismissed.
You need to ensure that the repeating audio alert is played.
How should you define the toast notification? (To answer, drag the appropriate code segments to the correct locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)
Select and Place:
Correct Answer:

```javascript
toastNode.setAttribute("duration", "long");
var audio = toastXml.createElement("audio");
audio.setAttribute("src", "ms-winsoundevent:Notification.Looping.Alarm");
audio.setAttribute("loop", "true");
toast.appendChild(audio);
return toast;
```

Explanation/Reference:
Note: In the case of a long-duration toast notification, the sound can be looped rather than playing only once. Note that looping audio is only valid for long-duration toasts. Specific sounds for use with looping are included in the system-specified sound set. This example specifies a looping sound.

JavaScript
```javascript
toastNode.setAttribute("duration", "long");
var audio = toastXml.createElement("audio");
audio.setAttribute("src", "ms-winsoundevent:Notification.Looping.Alarm");
audio.setAttribute("loop", "true");
```

Reference:
Quickstart: Sending a toast notification (Windows Store apps using JavaScript and HTML) (Windows)
Quickstart: Sending a toast notification (HTML) (Windows)
Which data access strategies should you use?

**DRAG DROPC**

You are developing a Windows Store app for purchasing school supplies. The app has the following storage requirements:

- Inventory data must be accessible to the app and over the Internet to external suppliers. Suppliers will access the data over HTTP by using OData.
- App storage for the high volume sales periods must be able to scale rapidly, but at the lowest possible cost.
- Color preferences for the user must be stored on the host device.

You need to choose the appropriate data access strategy for each requirement.

Which data access strategies should you use? (To answer, drag the appropriate data access strategies to the correct requirements in the answer area. Each data access strategy may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Select and Place:

- **Session storage**
- **Seasonal sales order data**
- **Microsoft SQL Server database storage**
- **Windows Azure storage**
- **User preference data**
- **HTMLS local storage**
- **Sybase database storage**

Correct Answer:

**Explanation/Reference:**

**Box 1:**

The Windows Azure storage services provide storage for binary and text data, messages, and structured data in Windows Azure. The storage services include:

- The Blob service, for storing binary and text data
- The Queue service, for storing messages that may be accessed by a client
- The Table service, for structured storage for non-relational data

Windows Azure drives, for mounting an NTFS volume accessible to code running in your Windows Azure service

Box 2: In HTML5, web pages can store data locally within the user’s browser.

Earlier, this was done with cookies. However, Web Storage is more secure and faster. The data is not included with every server request, but used ONLY when asked for. It is also possible to store large amounts of data, without affecting the website’s performance.

The data is stored in key/value pairs, and a web page can only access data stored by itself.

**Storage Services REST API Reference | Windows Azure Technical Documentation Library jquery - how to localhost saved values check using javascript**

- Stack Overflow

**Question 32**

Which properties should you use?

**DRAG DROPC**

You are developing a Windows Store app that uses a CredentialPicker control to collect the user’s user name and password credentials. The CredentialPicker control has the following requirements:

- The Remember my credentials check box must be selected by default.
- The text “Enter user name and password” must be displayed in the message header of the dialog box.

You need to ensure that the requirements are met.

Which properties should you use? (To answer, drag the appropriate properties to the correct locations in the answer area. Each property may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)
Select and Place:

Correct Answer: D
Explanation/Reference: WinJS.UI.StorageDataSource object (Windows)

Question 34
Which CSS segment should you add to the style sheet?
You are developing a Windows Store app. The app includes the following HTML markup:

You are creating a Flexible Box layout for the application. The layout must be configured as shown in the following display.

The Flexible Box layout must conform to the following requirements:
The Child2 DIV element must appear on the right side of the layout.
The Child1 DIV element must appear immediately to the left of Child2.
You need to add CSS to ensure that the requirements are met. Which CSS segment should you add to the style sheet?
A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: D
Explanation/Reference:

**Question 35**
Which code segments should you use?
You are developing a Windows Store text editor app by using HTML5 and JavaScript.
Users must be able to select text within the app and then copy the text.
You need to enable the copy feature.
Which code segments should you use? (Each correct answer presents part of the solution. Choose all that apply.)
You are developing a Windows Store app. The app will format a paragraph of text to resemble the following image.

The app must format the paragraph to meet the following requirements:
The paragraph must be divided between two columns.
Columns must be separated by vertical lines that are two pixels wide.
You need to ensure that the format of the paragraph meets the requirements.
Which code segment should you add?
**Question 37**

Which features should you add to the app bar?

**DRAG DROP**

You are designing a Windows Store app. The app displays prices and other information for various stocks. The app must allow the user to perform the following actions:

- Add and remove stocks.
- Search by stocks name.
- Display information about stocks.

You need to add the appropriate features to the app bar.

Which features should you add to the app bar? (To answer, drag the appropriate features to the correct locations in the answer area. Each feature may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Select and Place:

<table>
<thead>
<tr>
<th>app bar</th>
<th>Add and remove stocks</th>
</tr>
</thead>
<tbody>
<tr>
<td>charm</td>
<td>Cut, copy, and paste</td>
</tr>
<tr>
<td>canvas</td>
<td>Search for stocks</td>
</tr>
<tr>
<td>context menu</td>
<td>Display information about a stock</td>
</tr>
</tbody>
</table>

Correct Answer:

- app bar
- context menu
- charm
- canvas
- Add and remove stocks
- Cut, copy, and paste
- Search for stocks
- Display information about a stock

**Explanation/Reference:**

Note:

* Use the app bar
Use the app bar to display commands to users on-demand. The app bar shows commands relevant to the user’s context, usually the current page, or the current selection.

* Use context menus
You can use context menus for clipboard actions (like cut, copy, and paste), or for commands that apply to content that cannot be selected (like an image on a web page).

* Use the charms
Leverage the charm and app contracts to enable common app commands. Avoid duplicating app contract functionality on your app’s canvas or in the app bar.

/ Search: Let your users quickly search through your app’s content from anywhere in the system, including other apps. And vice versa.
/ Share: Let your users share content from your app with other people or apps, and receive shared content.
/ Devices: Let your users enjoy audio, video, or images streamed from your app to other devices in their home network.
/ Settings: Consolidate all of your settings under one roof and let users configure your app with common mechanism they’re already be familiar with.

* Use the canvas
Users should be able to complete the core scenarios just by using the canvas. Whenever possible, let users directly manipulate the content on the app’s canvas, rather than adding commands that act on the content.

For example, in a Restaurant browsing app, finding and viewing restaurant details should be done on the canvas by tapping, panning, or selecting content.

Reference: Commanding design for Windows Store apps (Windows)
Charms and contracts
Guidelines for clipboard commands
Guidelines for context menus
Guidelines for app bars

**Question 38**
Where should you place each command?

DRAG DROP
You are developing a Windows Store app. The app will be used to manage a task list.
The app has the following requirements:
Support commands to add, remove, filter, and select all items in the task list.
Support navigation to the previous screen.
You need to ensure that the commands are placed according to Microsoft design style guidelines.
Where should you place each command? (To answer, drag each command to the correct placement location. Each answer must be used only once.
You may need to drag the split bar between panes or scroll to view content.)

Select and Place:

Correct Answer:
Use Remove and Add commands if your app is about managing a list, such as a to-do list. Remove and Add should always appear in the order shown here.

Command patterns (Windows)

Question 39
Which code segment should you insert at line 01?
You are developing a Windows Store app. The app will be used on devices that are capable of changing view states.
The app contains the following CSS code segment. (Line numbers are included for reference only.)

The app has the following requirements when the host device is in a landscape orientation:
The app’s client area must be the same height as the device’s height.
The app’s client area must be the same width as the device’s width.
You need to ensure that the layout of the device screen meets the requirements.
Which code segment should you insert at line 01?

A. @ device screen and (-ms-view-state: fullscreen-landscape) {
B. @ device screen and (-ms-view-state: full-screen-snapped) {
C. @ media screen and (-ms-view-state: full-screen-landscape)
D. @ media all and (-ms-view-state: full-screen-snapped) {

Correct Answer: C
Explanation/Reference:
- ms-view-state media feature (Windows)

Question 40
Which four actions should you perform in sequence?
DRAG DROP
You are developing a Windows Store app that allows the user to write reviews for a company’s products.
The product selection page must switch to a vertical list layout when the app is snapped.
You need to ensure that the product layout is updated.
Which four actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)
Select and Place:
Step 1: We need to set up the event handler for any Viewstate changes. This got a lot simpler for the Windows 8 Release Preview. We need only add an event listener to the window resize event, like so:

```javascript
window.addEventListener("resize", onViewStateChanged);
```

Step 2-3:
When onViewStateChanged runs it enumerates through all available viewstates and passes the current view state to a custom function.

Example code:
```javascript
function onViewStateChanged(eventArgs) {
    var viewStates = Windows.UI.ViewManagement.ApplicationViewState, msg;
    var newViewState = Windows.UI.ViewManagement.ApplicationViewState.value;
    if (newViewState === viewStates.snapped) {
        showMenu('snapped');
    } else if (newViewState === viewStates.filled) {
        showMenu('filled');
    } else if (newViewState === viewStates.fullScreenLandscape) {
        showMenu('landscape');
    } else if (newViewState === viewStates.fullScreenPortrait) {
        // Currently not supported
    }
}
```

Step 4: Finally handle the layout changes.

The `ApplicationViewState` enumeration specifies the set of app view state changes that can be handled.

The `ApplicationViewState` enumeration has these members:

- `FullScreenLandscape` | `fullScreenLandscape`
- The current app’s view is in full-screen (has no snapped app adjacent to it), and has changed to landscape orientation.
- `Filled` | `filled1`
- The current app’s view has been reduced to a partial screen view as the result of another app snapping.
- `Snapped` | `snapped2`
- The current app’s view has been snapped.
- `FullScreenPortrait` | `fullScreenPortrait3`
- The current app’s view is in half-screen (has no snapped app adjacent to it), and has changed to portrait orientation.

Reference: Handling Fullscreen, Snapped and Filled states in Windows 8 Metro Style apps using CSS3 and JavaScript - DaveDev - Site Home - MSDN Blogs

Question 41
Which media feature should you evaluate?
You are developing a Windows Store app that uses a fluid layout for all user interface elements.

You need to ensure that app elements are styled appropriately based on the size and orientation of the app on the screen.

Which media feature should you evaluate?
A) `-ms-application-state`
B) `-resolution`
C) `-ms-view-state`
D) `aspect-ratio`

Correct Answer: C

Explanation/Reference:

- `-ms-view-state` media feature (Windows)

Question 42
How should you complete the HTML?

DRAG DROP
You are developing a Windows Store travel-planning app. An array named `dataArray` stores information about travel categories. The array is defined in the following code:

```javascript
(function () {
    "use strict";

    var dataArray = [
        { title: "Cars", picture: "images/cars.png" },
        { title: "Cruises", picture: "images/cruises.png" },
        { title: "Flights", picture: "images/planes.png" },
        { title: "Hotels", picture: "images/hotel.png" },
        { title: "Packages", picture: "images/packages.png" }
    ];

    var dataList = new WinJS.Binding.List(dataArray);
    var publicMembers =
        { itemlist: dataList
        }; WinJS.Namspace.define("Travel", publicMembers);
});
```

The app must display the title and image for each travel category in a `ListView` control. You need to define the HTML for the `ListView` control. How should you complete the HTML? (To answer, drag each appropriate attribute or object to the correct location or locations in the answer area. Each attribute or object may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Select and Place:

Correct Answer:

```
<div id="myTemplate"
    data-win-bind="src: picture"
    data-win-options="{itemDataSource}"
    "winJS.UI.ListView"
    data-win-control="src: picture"
    data-win-bind="innerText: title"
></div>
```

**Explanation/Reference:**

* Use the `data-win-bind` property to bind a property of an element to a property of a data source.
* The `WinJS.UI.ListView` object displays data items in a customizable list or grid.

**Reference:** How to use templates to bind data (Windows Store apps using JavaScript and HTML) (Windows)
Question 43
Which code segments should you use?

You are developing a Windows Store weather app.
You need to restore the state of the app while the app is being reactivated.
Which code segments should you use? (To answer, drag the appropriate code segments to the correct locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Select and Place:

Correct Answer:

Explanation/Reference:

Note:
* When a user selects your app to share content, Windows activates your app. Because there are many ways that Windows could activate your app, you need to add code to your activated event handler that detects why the activation occurred. You do this by checking the value of the kind property.

JavaScript
app.onactivated = function (args) {
if (args.detail.kind === activation.ActivationKind.launch) {
WinJS.Application.sessionState
}}
// The application has been launched. Initialize as appropriate.
if (app.sessionState) {
  // restore previous state from sessionState
}
Reference:
onactivated event (Windows)
ActivationKind enumeration (Windows)
WinJS.Application.sessionState object (Windows)

Question 44
Which actions can you perform to achieve this goal?
You are developing a Windows Store app that will be used to display daily high temperatures and other weather conditions for five cities.
The app must meet the following requirements:
A splash screen is displayed on the device until the data is retrieved from the Internet.
The user must be able to view weather information as soon as the data is fully available.
You need to ensure that the splash screen is displayed at startup until the app has completed loading updated data.
Which actions can you perform to achieve this goal? (Each correct answer presents a complete solution. Choose all that apply.)
A. Configure settings in the app manifest to display the splash screen until the data is fully available.
B. Create an image that duplicates the splash screen, load the image from the dismissed event of the splash screen, and display the image until the data is fully available.
C. Create an image that duplicates the splash screen, and display the image by using fragment loading until the data is fully available.
D. Configure settings in the app manifest to display the splash screen for 10 seconds.
Correct Answer: CD
Explanation/Reference:
Guidelines for splash screens (Windows)
How to extend the splash screen (HTML) (Windows)

Question 45
What should you do?
You are developing a Windows Store app by using HTML5 and JavaScript. The app will support both the English and French languages.
The app must meet the following requirements:
Automatically load language-specific string resources from a resource file, and access the resources from within the HTML by using data-win-res attributes.
Use the base.js file from the Windows Library for JavaScript.
You need to ensure that the correct language-specific resources are used.
What should you do?
A. Specify both the element properties and the resource names of data-win-res attributes, and process the data-win-res attributes in the onactivated event.
B. Specify only the properties of data-win-res attributes, and process the data-win-res attributes prior to the DOMContentLoaded event.
C. Specify both the element properties and the resource names of data-win-res attributes, and process the data-win-res attributes immediately after theDOMContentLoaded event.
D. Specify only the resource names of data-win-res attributes, and process the data-win-res attributes in the onactivated event.
Correct Answer: C
Explanation/Reference:
data-win-res property (Windows)
DOMContentLoaded | event (Windows)

Question 46
How many packages should you use?
You are planning to deploy a Windows Store app to a large number of users. The size of the app is approximately 5 GB.
You need to package the app to prepare it for deployment to the Windows Store.
How many packages should you use?
A. 3
B. 1
C. 2
D. 4
Correct Answer: A
Explanation/Reference:

Question 47
Which actions should you perform?
You are developing a Windows Store app by using HTML5. The app will be optimized for accessibility.
The app must meet the following accessibility requirements:
Provide support for navigating all user interface elements.
Provide support for invoking default functionality on the user interface.
Provide support for use of a computer keyboard.
You need to ensure that the app meets the accessibility requirements.
Which actions should you perform? (Each correct answer presents part of the solution. Choose all that apply.)
A. Set the tabIndex attribute for interactive elements. Dynamically manage the tabIndex attribute for composite elements.
B. Set the aria-live attribute of user interface elements to polite for important content that changes dynamically.
C. Ensure that visible text has a minimum luminosity contrast ratio of 1:1 against the background.
D. Implement event handlers for invoking default functionality.

Correct Answer: AB
Explanation/Reference:
aria-live attribute | ariaLive property (Windows)
tabindex attribute | tabIndex property (Windows)

Question 48
Which code segment should you use?
HOTSPOT
You are developing a Windows Store app.
You need to ensure that a file that is launched by the app is handled when the app is activated.
Which code segment should you use? (To answer, select the correct option from the drop-down list in the answer area.)
Hot Area:

```javascript
function activatedHandler(eventArg) {
    if (eventArg.detail.kind == ActivationKindCachedFileUpdater) {
        ...
    }
}
```

Correct Answer:

```javascript
function activatedHandler(eventArg) {
    if (eventArg.detail.kind == ActivationKindCachedFileUpdater) {
        ...
    }
}
```

Explanation/Reference:
ActivationKind enumeration (Windows)

Question 49
What should you do?
You are developing two Windows Store apps named PhotoApp and PictureAlbum.
The apps must meet the following requirements:
PhotoApp must have access to images on the local computer on which PhotoApp is running.
PictureAlbum must be able to access the images from PhotoApp.
You need to configure the deployment package settings for both apps to ensure that the requirements are met.
What should you do?
A. Add the Pictures Library setting to the list of declarations for PhotoApp, and add the Share Target setting to the list of capabilities for PictureAlbum.
B. Add the Share Target setting to the list of declarations for PictureAlbum, and add the Pictures Library setting to the list of capabilities for PhotoApp.
C. Add the Pictures Library setting to the list of capabilities for PictureAlbum, and add the Share Target setting to the list of declarations for PictureAlbum.
D. Add the URI of PhotoApp to the Content URIs list for PictureAlbum, and add the URI of PictureAlbum to the Content URIs list for PhotoApp.

Correct Answer: A
Explanation/Reference:
App capability declarations (Windows Runtime apps) (Windows)

Question 50
Which project template should you choose?
HOTSPOT
You need to begin the project development.
Which project template should you choose? To answer, select the appropriate project template type in the answer area.
Hot Area:
Question 51
Which code segment should you add?
You are developing a Windows Store app.
Users must be able to initiate searches using the Search charm. The app must display the search text in a DIV element named statusMessage.
You need to add code to meet this requirement.
Which code segment should you add?
A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: B
Explanation/Reference:
onactivated event (Windows)
ActivationKind enumeration (Windows)
getElementById method (Windows)

Question 52
Which code segment should you insert at line 05?
You are developing a Windows Store app. The app includes a handler for the datarequested event. A portion of the code for the event handler is shown in the following code segment:

```javascript
01 function onDataRequested(e) {
02 e.request.data.properties.title = "Order 12345";
03 e.request.data.properties.description = "Track your order";
04 var url = "http://www.fabrikam.com/Order-12345";
05 e.request.data.setUrl(url);
06 }
```
The app must meet the following requirements:
The app must share an order tracking link with target apps.
The app must share URI-type data only.
You need to ensure that the app meets the requirements.
Which code segment should you insert at line 05?

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

Correct Answer: C
Explanation/Reference:
Windows.Foundation classes (Windows)

Question 53
Which code segments should you use?

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

Correct Answer: C
Explanation/Reference:
Windows.Foundation classes (Windows)
You are developing a Windows Store app. The app allows users to browse contacts from a social networking site.
The app has the following requirements:
The user must be able to select more than one contact at a time.
The app must display all of the details for the selected contacts.
You need to ensure that the requirements are met.
Which code segments should you use? (To answer, select the correct option from each drop-down list in the answer area.)

Correct Answer:

Explanation/Reference:
ContactSelectionMode enumeration (Windows)
ContactPicker.PickMultipleContactsAsync | pickMultipleContactsAsync method (Windows)

Question 54
Which three actions should you perform in sequence?

DRAG DROP
You are developing a Windows Store app.
You need to allow the app to share content with other applications.
Which three actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)

Select and Place:
Correct Answer:

Explanation/Reference:
Note: The DataTransferManager object is the main starting point for any share operation. You’ll add a datarequested event handler on the DataTransferManager object in the activated event handler of your app. The datarequested event occurs when the will.
When datarequestedevent occurs, your app receives aDataRequestobject. This object contains aDataPackage that you can use to provide the content that the user wants to share.
Example code (for step 3):
```javascript
// This app is newly launched; register it as a share source.
var dataTransferManager = Windows.ApplicationModel.DataTransfer.DataTransferManager.getForCurrentView();
```
Reference:
How to share files (HTML) (Windows)

Question 55
Which four actions should you perform in sequence?

You need to configure the app to receive push notifications.

Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:
Correct Answer:

Explanation/Reference:
App capability declarations (Windows Runtime apps) (Windows)

Question 56
Which markup segment should you insert at line SH07?
You need to implement the app bar for the Service Record screen.
Which markup segment should you insert at line SH07?
Question 57
What should you do?
You need to modify the app so that the user can play videos by tapping the screen.
What should you do?

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

Correct Answer: A
Explanation/Reference:
poster property (Windows)
controls property (Windows)
Question 58
What should you do?
You need to implement the navigation between screen categories.
What should you do?
A. Place one link for each category on every screen and use an <href> tag to go to the category screens.
B. Implement category navigation controls on the nav bar on every screen.
C. Place one button for each category on every screen and use the WinJS.navigate command to go to the category screens.
D. Implement category navigation controls on the app bar on every screen.

Correct Answer: B
Explanation/Reference:
Navigation patterns (Windows Store apps) (Windows)

Question 59
Which navigation design patterns should you implement?
You need to implement the business requirement for the layout of the user interface.
Which navigation design patterns should you implement? (Each answer presents part of the solution. Choose all that apply)
A. Use the Detail pages hierarchical system design pattern to display toys that belong to a category.
B. Use the Flat system design pattern to navigate the different toy categories.
C. Use the Hub pages hierarchical system design pattern to navigate the different toy categories.
D. Use the Section pages hierarchical system design pattern to display toys that belong to a category.

Correct Answer: AC
Explanation/Reference:
Navigation patterns (Windows Store apps) (Windows)

Question 60
Which code segment should you insert at line UL15?
You need to ensure that the app meets the business requirements for user interface design.
Which code segment should you insert at line UL15?
A. layout: new ui.GridLayout({ groupHeaderPosition: "left" })
B. layout: new ui.GridLayout({ groupHeaderPosition: "top" })
C. layout: new ui.GridLayout( ui.ListLayout{ groupHeaderPosition: "left" })
D. layout: new ui.GridLayout( ui.ListLayout{ groupHeaderPosition: "top" })

Correct Answer: C
Explanation/Reference:
GridLayout.groupHeaderPosition property (Windows)

Question 61
Which compiler and associated switch should you use?
You need to ensure that the compiler-generated metadata for the ToyInventory library meets the requirements.
Which compiler and associated switch should you use?
A. Use the MIDL.exe compiler with the /win64 switch.
B. Use the MIDLRT.exe compiler with the /winmd switch.
C. Use the MIDLRT.exe compiler with the /winrt switch.
D. Use the MDMERGE.exe compiler with the /v switch.

Correct Answer: C
Explanation/Reference:
MIDLRT and Windows Runtime components (Windows)
/winrt switch (Windows)

Question 62
Which code segment should you insert at line ST11?
You need to ensure that the app presents notifications according to the requirements.
Which code segment should you insert at line ST11?

A. var duration = toastXml.getElementsByTagName("duration");
   duration[0].setAttribute("toast");
B. var duration = toastXml.getElementsByTagName("toast");
   duration[1].setAttribute("duration");
C. var duration = toastXml.getElementsByTagName("toast");
   duration[0].setAttribute("duration");
D. var duration = toastXml.getElementsByTagName("duration");
   duration[1].setAttribute("toast");
Question 63
Which code segment should you insert at line ST12?
You need to handle inventory changes according to the requirements.
Which code segment should you insert at line ST12?

A. notificationManager.createToastNotifier().getScheduledToastNotifications(toastXml);
B. var toast = new ToastNotification(toastXml);
   notificationManager.createToastNotifier().show(toast);
C. var toast = new ToastNotification(toastXml);
   notificationManager.createToastNotifier().getScheduledToastNotifications(toast);
D. notificationManager.createToastNotifier().show(toastXml);

Correct Answer: B
Explanation/Reference:
ToastNotifier.Show | show method (Windows)

Question 64
Which attribute should you add to the DIV element in line AB07?
You need to ensure that the about.html page is displayed according to the requirements.
Which attribute should you add to the DIV element in line AB07?

A. data-win-control="WinJS.UI.GridLayout"
B. data-win-control="WinJS.UI.AppBar"
C. data-win-control="WinJS.UI.ListLayout"
D. data-win-control="WinJS.UI.SettingsFlyout"

Correct Answer: B
Explanation/Reference:

Question 65
Which code segment should you insert at line UL15?
You need to ensure that the app meets the business requirements for user interface design.
Which code segment should you insert at line UL15?

A. layout: new ui.ListLayout ( ui.GridLayout { horizontal: "false" })
B. layout: new ui.GridLayout({ groupHeaderPosition: "top" })
C. layout: new ui.ListLayout({ horizontal: "false" })
D. layout: new ui.GridLayout ( ui.ListLayout { groupHeaderPosition: "top" })

Correct Answer: B
Explanation/Reference:
GridLayout.groupHeaderPosition property (Windows)

Question 66
Which event handlers should you implement?
You need to ensure that the app maintains information according to the requirements.
Which event handlers should you implement? (Each correct answer presents part of the solution. Choose all that apply.)

A. loaded
B. activated
C. onsettings
D. oncheckpoint

Correct Answer: BD
Explanation/Reference:
onactivated event (Windows)
oncheckpoint event (Windows)
**Question 67**
Which four actions should you perform in sequence?

DRAG DROP
You need to handle the state of the app upon reactivation to meet the requirements.

Which four actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)

Select and Place:

- Check the `detail.kind` object of the event arguments.
- Get the previous state of the app and update.
- Check the `detail.previousExecutionState` object of the event arguments.
- Handle the `WinJS.Application.activated` event.
- Check the `detail.state` object of the event arguments.

**Correct Answer:**

Handle the `WinJS.Application.activated` event.

Get the previous state of the app and update.

Check the `detail.previousExecutionState` object of the event arguments.

Check the `detail.state` object of the event arguments.

**Explanation/Reference:**

**Question 68**
Which code segment should you use?

You need to implement the event that will provide access to app settings.

Which code segment should you use?

A. Option A

A. Option A
Question 69
Which attribute should you add to the DIV element in line AB07?
You need to ensure that the settings for the About page meet the business requirements.
Which attribute should you add to the DIV element in line AB07?
A. `data-win-options="{width:'narrow'}"`
B. `data-win-options="{width:'346'}"`
C. `data-win-options="{size:'narrow'}"`
D. `data-win-options="{size:'346'}"`

Correct Answer: A
Explanation/Reference:
`SettingsFlyout.width` property (Windows)

Question 70
Which tab in Visual Studio should you use?
HOTSPOT
You are preparing to deploy the app.
You need to prepare the app according to the technical specifications.
Which tab in Visual Studio should you use? (To answer, select the correct tab in the answer area.)

Correct Answer:
Question 71
Which code segment should you insert at line DF13? You need to ensure that the about.html page is displayed. Which code segment should you insert at line DF13?

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

Correct Answer: B
Explanation/Reference:

Question 72
How should you rewrite the code? You need to ensure that the JavaScript object that is defined in the credentialManager.js file can be consumed by other Windows Store apps that are written in different programming languages. How should you rewrite the code?
A. As a WinJS.Class object
B. As an ASP.NET server control
C. As a Windows Runtime component
D. As an XAML control

Correct Answer: C
Explanation/Reference:
Building your own Windows Runtime components to deliver great Metro style apps - Windows 8 app developer blog - Site Home - MSDN Blogs

Question 73
Which attributes should you use?
DRAG DROP
You need to ensure that product images are displayed according to the requirements.
Which attributes should you use? (To answer, drag the appropriate attributes to the correct locations in the answer area. Each attribute may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)
Select and Place:
**Question 74**
Which tool should you use to validate the app?
You are preparing to deploy the app. You need to ensure that the app meets the deployment requirements.
Which tool should you use to validate the app?
A. Windows App Cert Kit
B. System Center Configuration Manager
C. Microsoft Deployment Toolkit
D. SelfCert

Correct Answer: A
Explanation/Reference: 
*Using the Windows App Certification Kit (Windows)*

**Question 75**
Which code segment should you insert at line CM06?
You need to implement the saveCredentials method.
Which code segment should you insert at line CM06?

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

Correct Answer: A
Explanation/Reference: 
*Managing application data in a Windows Store business app using C#, XAML, and Prism (Windows)*
*PasswordVault class (Windows)*

**Question 76**
Which type of object should you create?
You are designing the architecture for the app. You need to ensure that the logical design fulfills the design pattern requirements.
Which type of object should you create?
A. C# class library
B. Windows Runtime components
C. A single JavaScript file
D. A separate JavaScript file for each page that contains a single enterprise service provider implementation

Correct Answer: B
Explanation/Reference: 
*Building your own Windows Runtime components to deliver great Metro style apps - Windows 8 app developer blog - Site Home - MSDN Blogs*
*Creating Windows Runtime Components in C# and Visual Basic*

**Question 77**
Which code segment should you insert at line DF13?
You need to ensure that the about page is displayed.
Which code segment should you insert at line DF13?
Question 78
Which code segment should you insert at line NP04?
You need to ensure that the navigation requirements for displaying news items are met.
Which code segment should you insert at line NP04?
A. Windows.Devices.Enumeration
B. Windows.Devices.Input
C. Windows.Media.Devices
D. Windows.UI.Input

Correct Answer: D
Explanation/Reference:
Windows.UI.Input namespace (Windows)

Question 79
Which HTML element should you insert at line NH06?
You need to implement the code to meet the requirements regarding the display of the newsPage.html page.
Which HTML element should you insert at line NH06?
A. `<h2 class="news-item-title win-type-ellipses" data-win-bind="textContent: title"></h2>`
B. `<h2 class="news-item-title win-type-large" data-win-bind="textContent: title"></h2>`
C. `<h2 class="news-item-title win-type-xx-large" data-win-bind="textContent: title"></h2>`
D. `<h2 class="news-item-title win-type-x-large" data-win-bind="textContent: title"></h2>`

Correct Answer: A
Explanation/Reference:
WinJS CSS classes for typography (Windows)
ListView.itemTemplate property (Windows)

Question 80
Which layout should you choose?
You add an element with an ID of MyFlexbox to newsPage.html.
You need to ensure that the layout for MyFlexbox meets the requirements.
Which layout should you choose?
A. Option A  
B. Option B  
C. Option C  
D. Option D   

Correct Answer: A  
Explanation/Reference:  
flex-wrap property (Windows)  

Question 81  
Which code segment should you insert at line CM13?  
You need to implement the getStoredCredentialsFull method.  
Which code segment should you insert at line CM13?  

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

Correct Answer: C  
Explanation/Reference:  
PasswordVault class (Windows)  

Question 82  
Which three actions should you perform in sequence?  
DRAG DROIP  
You need to ensure that the product details are displayed.  
Which three actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)  
Select and Place:
Correct Answer:

Box 1: Bind the model to the view.
Box 2: Instantiate the model with product details.
Box 3: Iterate through the product details.

Note:
* Here are the relationships between a view, a view model and a model.

\* MVVM is an architectural pattern. It is a specialization of the presentation model pattern that was introduced by Martin Fowler. It is also related to the model-view-controller pattern (MVC) and the model view presenter (MVP) pattern that you may already know.

An app that uses MVVM separates business logic, UI, and presentation behavior.

/ Models represent the state and operations of business objects that your app manipulates. For example, Hilo reads and modifies image files, so it makes sense that data types for image files and operations on image files are part of Hilo’s model.
/ Views contain UI elements, and they include any code that implements the app’s user experience. A view defines the structure, layout, and appearance of what the user sees on the screen. Grids, pages, buttons, and text boxes are examples of the elements that view objects manage.
View models encapsulate the app’s state, actions, and operations. A view model serves as the decoupling layer between the model and the view. It provides the data in a format that the view can consume and updates the model so that the view does not need to interact with the model. View models respond to commands and trigger events. They also act as data sources for any data that views display. View models are built specifically to support a view. You can think of a view model as the app, minus the UI. In Windows Store apps, you can declaratively bind views to their corresponding view models.

Reference:
Using the Model-View-ViewModel (MVVM) pattern in Hilo (Windows Store apps using C++ and XAML) (Windows)

Question 83
Which attribute should you add to the DIV element in line AB07?
You need to ensure that the about.html page is displayed according to the requirements.
Which attribute should you add to the DIV element in line AB07?
A. data-win-control="WinJS.UI.ApplicationSettings.SettingsLayout"
B. data-win-control="WinJS.UI.SettingsLayout"
C. data-win-control="WinJS.UI.ApplicationSettings.SettingsPane"
D. data-win-control="WinJS.UI.SettingsPane"

Correct Answer: C
Explanation/Reference:
http://msdn.microsoft.com/library/windows/apps/br208189
Question 84
Which code segment should you use to replace the code in line EJ04?
You need to implement the requirements for sending news items to multiple contacts.
Which code segment should you use to replace the code in line EJ04?

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

Correct Answer: D
Explanation/Reference:
ContactPicker.PickMultipleContactsAsync | pickMultipleContactsAsync method (Windows)
Contact.Emails | emails property (Windows)

Question 85
Which code segment should you insert at line NP11?
You need to implement the code to meet the search requirements.
Which code segment should you insert at line NP11?

A. Option A
B. Option B
C. Option C
Question 86
Which code segment should you add to newsPage.js?
You need to implement the code to retrieve news items according to the requirements.

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

Correct Answer: D
Explanation/Reference:
WinJS.xhr function (Windows)

Question 87
Which code segment should you insert at line EJ03?
You need to ensure that the app displays only contacts that meet the requirements.

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

Correct Answer: D
Explanation/Reference:
WinJS.xhr function (Windows)
Correct Answer: D
Explanation/Reference: KnownContactField class (Windows)

**Question 88**
Which code segment should you insert at line NJ03?
You need to ensure that the user can annotate news items according to the requirements.
Which code segment should you insert at line NJ03?

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

Correct Answer: B

**Question 89**
Which event handler should you add to newsltem.js?
You need to implement the code to meet the requirements for handling changes in the annotation area of the newsltem.html page.
Which event handler should you add to newsltem.js?

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

Correct Answer: A
Explanation/Reference: onbeforernavigate event (Windows)

**Question 90**
Which code segment should you insert at line NP04?
You need to ensure that the navigation requirements for displaying news items are met.
Which code segment should you insert at line NP04?
A. nav.navigate("/html/newsPage.html");
B. nav.navigate("/html/newsItem.html", {item: item});
C. nav.forward("/html/newsItem.html");
D. nav.forward("/html/newsPage.html", {item: item});

Correct Answer: B
Explanation/Reference:
WinJS.Navigation.navigate function (Windows)

Question 91
Which code segment should you insert at line NP19?
You need to implement the code to meet the requirements for displaying content from search results.
Which code segment should you insert at line NP19?

A. if (detail.kind === Windows.ApplicationModel.Activation.ActivationKind.search) {
    var id = FindNewsId(detail.arguments);
}
B. if (detail.kind === Windows.ApplicationModel.Activation.ActivationKind.search) {
    var id = FindNewsId(detail.queryText);
}
C. if (detail.kind === Windows.ApplicationModel.Activation.ActivationKind.launch) {
    var id = FindNewsId(detail.queryText);
}
    var id = FindNewsId(detail.arguments);
}

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

Correct Answer: B
Explanation/Reference:
onactivated event (Windows)
ActivationKind enumeration (Windows)

Question 92
Which code segments should you use?
You need to ensure that the requirements for capturing user input on the newsItem.html page are met.
Which code segments should you use? (Each correct answer presents part of the solution. Choose all that apply.)
A. InkManager.mode = Windows.UI.Input.Inking.InkManipulationMode.selecting;
B. InkManager.mode = Windows.UI.Input.Inking.InkRecognitionTarget.selected;
C. InkManager.mode = Windows.UI.Input.Inking.InkManipulationMode.inking;
D. InkManager.mode = Windows.UI.Input.Inking.InkRecognitionTarget.all;

Correct Answer: AB
Explanation/Reference:
InkManipulationMode enumeration (Windows)
InkRecognitionTarget enumeration (Windows)

Question 93
Which layout should you choose?
You need to ensure that the layout for newsPage.html meets the requirements.
Which layout should you choose?
Question 94
Which code segment should you insert at line GC04?
You need to ensure that employees are authenticated across public networks according to the requirements.
Which code segment should you insert at line GC04?

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

Correct Answer: A
Explanation/Reference:
AuthenticationProtocol enumeration (Windows)

Question 95
Which code segment should you insert at line GC04?
You need to configure the CredentialPicker object to meet the requirements.

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

Correct Answer: A
Explanation/Reference:
Incorrect:
B, C, D - Credentials are returned to the caller as plaintext.
A - Credentials are transformed before being returned to the caller.
AuthenticationProtocol enumeration (Windows)
Which code segment should you insert at line GC04?
A. options.callerSavesCredential = false;
B. options.CredentialSaveOption.unselected;
C. options.CredentialSaveOption.selected;
D. options.callerSavesCredential = true;
E. options.CredentialSaveOption.hidden;

Correct Answer: C
Explanation/Reference:
CredentialPickerOptions.CallerSavesCredential | callerSavesCredential property (Windows)