

**Microsoft 70-599**

**Pro: Designing and Developing Windows Phone  
Applications**

**Practice Test**

Version: 14.25

**QUESTION NO: 1**

You are testing a Windows Phone 7 application. The application is designed to optimize the frames per second display on both the composite thread and the UI thread. The application testing must validate that this performance metric is achieved. You need to recommend a way to test the application to confirm that the performance metric is met. Which property of the `System.Windows.Interop.Settings` class should be modified?

- A. `MaxFrameRate`
- B. `EnableGPUAcceleration`
- C. `EnableRedrawRegions`
- D. `EnableFrameRateCounter`

**Answer: C**

**Explanation:**

**QUESTION NO: 2**

You are designing a Windows Phone 7 application that uses a timer. The application throws an exception when trying to update the UI from a thread other than the UI thread. You need to ensure that the timer updates on the UI thread. Which class should you recommend to prevent the exception?

- A. `Timer`
- B. `ThreadPool`
- C. `DispatcherTimer`
- D. `Thread`

**Answer: C**

**Explanation:**

**QUESTION NO: 3**

You are debugging a Windows Phone 7 application that contains a breakpoint in the `Activated` event. You click the `Search` button of the emulator to perform a Bing search and notice that Microsoft Visual Studio is still attached to the emulator process. You need to step into the code of the `Activated` event. What should you recommend?

- A. Stop the debugger and then start it again.
- B. Attach to the `XDE.exe` process.
- C. Launch the application by using the `Start` button of the emulator and clicking the application

icon.

**D.** Click the Back button of the emulator.

**Answer: D**

**Explanation:**

#### **QUESTION NO: 4**

You are testing a Windows Phone 7 application that uses a large amount of device memory at run time. According to the Windows Phone 7 application certification requirements, the application must not use more than 90 MB of device memory if a device's physical memory is only 256 MB. You need to ensure that the application conforms to the application certification requirements. Which properties of the `DeviceExtendedProperties` class should be used to test the application? (Each correct answer presents part of the solution. Choose all that apply).

- A.** `ApplicationPeakMemoryUsage`
- B.** `DeviceTotalMemory`
- C.** `DeviceManufacturer`
- D.** `DeviceHardwareVersion`
- E.** `DeviceFirmwareVersion`
- F.** `ApplicationCurrentMemoryUsage`

**Answer: A,B**

**Explanation:**

#### **QUESTION NO: 5**

You are designing a Windows Phone 7 application that includes data entry functionality. The application will require data to be saved when users click the Start button. The data must be available in the application regardless of how the application is exited and re-entered. You need to recommend a way to ensure the availability of user data. What should you recommend?

- A.** Use the `OnNavigatedFrom()` method to store the data in the `PhoneApplicationService.State` dictionary.
- B.** Use the `Closing` and `Deactivated` events to store the data to isolated storage.
- C.** Use the `OnNavigatedTo()` method to store the data to isolated storage.
- D.** Use the `Closing` and `Deactivated` events to store the data in the `PhoneApplicationService.State` dictionary.

**Answer: B**

**Explanation:**

**QUESTION NO: 6**

You are designing a Windows Phone 7 application. The current size of the application is 60 MB and includes several high-definition videos. The videos must be as high quality as possible. You need to ensure that users can download the application from the Windows Phone 7 Marketplace over a General Packet Radio Service (GPRS) or 3G phone connection. What should you recommend?

- A.** Ensure that the maximum XAP file size is within the size limitation of the Windows Phone 7 Marketplace standards for over-the-air downloads.
- B.** Ensure that the maximum size of each video is within the size limitation of the Windows Phone 7 Marketplace standards for over-the-air downloads.
- C.** Ensure that the XAP file is smaller than the maximum size of isolated storage.
- D.** Ensure that each video is smaller than the maximum size of isolated storage.

**Answer: A**

**Explanation:**

**QUESTION NO: 7**

You are designing a Windows Phone 7 application. The application will capture and store the current date and time each time it is run. When a user leaves the application by using the phone's Start button and navigates back by using the phone's Back button, the application must load previously stored data. You need to ensure that previously stored date and time information is reloaded when a user navigates back to the application by using the phone's Back button. What should you recommend to load the saved state data?

- A.** the `Application.Activated` event
- B.** the `PhoneApplicationPage.OnNavigatedFrom()` method
- C.** the `Application.Launching` event
- D.** the `PhoneApplicationPage.OnNavigatedTo()` method

**Answer: A**

**Explanation:**

**QUESTION NO: 8**

You are designing a Windows Phone 7 application. The application must continually perform

calculations and update the UI while a user is interacting with the application. You need to ensure that the UI is always able to respond to user input. Which actions should you perform? (Each correct answer presents part of the solution. Choose all that apply.)

- A. Use the BackgroundWorker class.
- B. Use the Application object for the application.
- C. Use the Thread.BeginInvoke method.
- D. Use the Dispatcher.BeginInvoke() method.

**Answer: A**

**Explanation:**

### QUESTION NO: 9

You are designing a Windows Phone 7 application. The application downloads images from a photography website. The UI is not responding while downloading these images. You need to recommend an update to the application to prevent it from being unresponsive while downloading images. What should you recommend?

- A. Use the BeginGetRequest() method of the HttpWebRequest class.
- B. Use the BeginGetRequest() method of the WebClient class.
- C. Use the DownloadStringCompleted() method of the HttpWebRequest class.
- D. Use the OpenReadAsync() method of the WebClient class.

**Answer: A**

**Explanation:**

### QUESTION NO: 10

You are designing a Windows Phone 7 application. You need to recommend a design strategy that will allow the application to be accepted into the Windows Phone 7 Marketplace. What should you recommend?

- A. The application must support trial mode.
- B. The file size of the application must meet the criteria of the Windows Phone 7 Marketplace.
- C. The application must be localized to each region that is supported by the Windows Phone 7 Marketplace.
- D. The file size of the application must be downloadable over a General Packet Radio Service (GPRS) or 3G phone connection.

**Answer: B**

**Explanation:**

### QUESTION NO: 11 DRAG DROP

You are designing a Windows Phone 7 application that requires user input.

The application will be deactivated by tasks a user performs, such as making a phone call or performing a search.

You need to ensure that all data entered by the user is populated only when the application is reactivated.

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

The screenshot shows a question interface with a blue header labeled "Question". The text of the question is as follows:

You are designing a Windows Phone 7 application that requires user input.

The application will be deactivated by tasks a user performs, such as making a phone call or performing a search.

You need to ensure that all data entered by the user is populated only when the application is reactivated.

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

Below the question is a list of seven actions in a vertical container:

- Handle the **Closing** event.
- Handle the **Launching** event.
- Override the **OnNavigatedTo()** method.
- Override the **OnNavigatedFrom()** method.
- Restore the data from application settings.
- Restore the data by using the **PhoneApplicationService.State** dictionary.
- Store the input in application settings.
- Store the input in the **PhoneApplicationService.State** dictionary.

There are navigation arrows on the right side of the list, and a large empty area on the right for the answer.

**Answer:**

**Question**

You are designing a Windows Phone 7 application that requires user input. The application will be deactivated by tasks a user performs, such as making a phone call or performing a search. You need to ensure that all data entered by the user is populated only when the application is reactivated. Which actions should you perform in sequence? (To answer, move the appropriate steps from the list of actions to the answer area and arrange them in the correct order.)

Handle the **Closing** event.

Handle the **Launching** event.

Override the **OnNavigatedTo()** method.

Override the **OnNavigatedFrom()** method.

Restore the data from application settings.

Restore the data by using the **PhoneApplicationService.State** dictionary.

Store the input in application settings.

Store the input in the **PhoneApplicationService.State** dictionary.

Override the **OnNavigatedTo()** method.

Restore the data by using the **PhoneApplicationService.State** dictionary.

Store the input in the **PhoneApplicationService.State** dictionary.

Override the **OnNavigatedFrom()** method.

**QUESTION NO: 12**

You are designing a Windows Phone 7 application. The application requires an animation that moves a UIElement object on the screen from point A to point B. You need to ensure that the animation does not impact the performance of the application. What should you recommend?

- A. Update the X and Y coordinates of UIElement.
- B. Use ScaleTransform.
- C. Use TranslateTransform.
- D. Use PlaneProjection.

**Answer: C****Explanation:****QUESTION NO: 13**

You are designing a Windows Phone 7 application that uses multiple pages for the entry of user data. A user can freely navigate among the pages in the application at any time. The user can also perform actions that use a launcher or chooser object to select data to populate data entry fields. You need to recommend a way for page data to persist when the user navigates through the application. What should you recommend?

- A. Add logic to the Application\_Launching and Application\_Closing events that retrieve and store page data to IsolatedStorage when the events are executed.
- B. Add logic to the Application\_Deactivated and Application\_Activated events that retrieve and store page data by using the State property of the PhoneApplicationService object when the events are executed.

- C.** Add a button to the page with a Click event that persists the page data to IsolatedStorage when the button is clicked.
- D.** Add NavigatedTo and NavigatedFrom events that retrieve and store page data by using the State property of the PhoneApplicationService object when the events are executed.

**Answer: D**

**Explanation:**

#### QUESTION NO: 14

You are designing a Windows Phone 7 application that depends on having a network connection. The network connection occasionally becomes unavailable. The application must not poll to see if a network connection is available. Application data must be available when the application is closed and reopened. You need to ensure that application data is available when the network connection returns. What should you recommend?

- A.** Use the NetworkChange.NetworkAddressChanged event and save the data to the PhoneApplicationService.State dictionary.
- B.** Use the NetworkInterface.GetIsNetworkAvailable method and save the data to the PhoneApplicationService.State dictionary.
- C.** Use the NetworkInterface.GetIsNetworkAvailable method and save the data to isolated storage.
- D.** Use the NetworkChange.NetworkAddressChanged event and save the data to isolated storage.

**Answer: D**

**Explanation:**

#### QUESTION NO: 15

You are designing a Windows Phone 7 application that refreshes data from the network. The application will retrieve data when the phone is active. You need to stop network activity when the screen on the phone is locked. What should you recommend?

- A.** Set the ApplicationIdleDetectionMode property of the applications PhoneApplicationService object to Disabled.
- B.** Handle the Obscured event of the applications root PhoneApplicationFrame object.
- C.** Handle the Unobscured event of the applications root PhoneApplicationFrame object.
- D.** Handle the Application\_Deactivated event of the applications root PhoneApplicationFrame object.

**Answer: B**

**Explanation:**



**QUESTION NO: 16**

You are designing a Windows Phone 7 application that receives data from a third-party RESTful service. The data is in JSON format. You need to recommend a way to consume the service. What should you recommend?

- A. Use the wsHttpBinding of Microsoft Windows Communication Foundation (WCF).
- B. Use the WebResponse object.
- C. Use the basicHttpBinding of Microsoft Windows Communication Foundation (WCF).
- D. Use the WebClient object.

**Answer: D**

**Explanation:**

**QUESTION NO: 17**

You are designing a Windows Phone 7 application. You need to store data so that it will be available if the application is resumed. What should you recommend?

- A. In application Closing event handler, save the data to the PhoneApplicationService.State dictionary. In application Launching event handler, read the data from the PhoneApplicationService.State dictionary.
- B. In the application Deactivated event handler, save the data to the PhoneApplicationService.State dictionary. In the application Activated event handler, read the data from the PhoneApplicationService.State dictionary.
- C. In the application Deactivated event handler, save data to the PhoneApplicationService.State dictionary. In the application Launching event handler, read the data from the PhoneApplicationService.State dictionary.
- D. In the application Closing event handler, save the data to the PhoneApplicationService.State dictionary. In the application Activated event handler, read the data from the PhoneApplicationService.State dictionary.

**Answer: B**

**Explanation:**

**QUESTION NO: 18**

You are designing a Windows Phone 7 application that receives data from a Microsoft Windows

Communication Foundation (WCF) service. A WCF service call fails when a user presses the Start button after the WCF service call begins but before it completes. You need to ensure that the WCF service call succeeds. What should you recommend?

- A. Handle the deactivated and activated events and retry the WCF service call if it did not complete.
- B. Check the results of the completed event and retry the WCF service call if no data exists.
- C. Add a try/catch block around the WCF service call and retry the WCF service call if an exception has been caught.
- D. Examine the error property of the completed event and retry the WCF service call if an error occurred.

**Answer: A**

**Explanation:**

#### QUESTION NO: 19

You are designing a Windows Phone 7 application. The application must be able to receive data from a Microsoft Windows Communication Foundation (WCF) web service. You need to ensure that authentication requests are passed to the WCF web service. What should you recommend?

- A. basic authentication with credentials in the header
- B. Windows Identity Framework (WIF)
- C. OpenID protocol
- D. Window Live ID Single Sign-On (SSO)

**Answer: A**

**Explanation:**

#### QUESTION NO: 20

You are designing a Windows Phone 7 application. The application must use a dynamic application key to access a company's web services. You need to recommend a way to help keep the application secure. What should you recommend?

- A. Use a custom class in the same assembly as the WebClient object that contains a string property holding the application key.
- B. Encrypt the application key and store it in the Application.Resources section of the App.xaml.cs file.
- C. Store the application key in a resource file associated to the application project.