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Vendor: Microsoft

Exam Code: 70-502

Exam Name: TS: Microsoft .NET Framework 3.5 – Windows Presentation Foundation

Version: Demo

Question: 1

You create a Windows Presentation Foundation application by using Microsoft .NET Framework 3.5. The application tracks stock prices in real time. You need to bind a label to the Price property of the Stock class. You also need to ensure that the label reflects any change in the Price property. Which code segment should you use?

A. public class Stock: DependencyObject { private decimal _price; public decimal Price { get { return
_price; } set { _price = value;) }}
B. public class Stock: DependencyObject { public static readonly DependencyProperty PriceProperty =
DependencyProperty.Register("Price", typeof(decimal), typeof(Stock)); public decimal Price { get { return
(decimal)GetValue(PriceProperty); } set { SetValue(PriceProperty, value); } }}
C. public class Stock { public event EventHandler PropertyChanged; private decimal _price; public decimal
Price { get { return _price; } set { _price = value; if (PropertyChanged != null)
PropertyChanged(this, EventArgs.Empty); } }}
D. public class Stock { public event PropertyChangedEventHandler PropertyChanged; private decimal
_price; public decimal Price { get { return _price; } set { _price = value; if (PropertyChanged != null)
PropertyChanged(this, new PropertyChangedEventArgs("Price")); } }}

Answer: B

Question: 2

You are creating a Windows Presentation Foundation application by using Microsoft .NET Framework 3.5. You implement validation for a data bound text box control. When a user enters an invalid value in the text box, the border of the text box turns red. You need to update the application so that both the border and the text of the text box control turn red when an invalid value is entered. What should you do?

A. Use a custom control template.
B. Create a custom validation rule.
C. Add an exception handler to the code-behind file.
D. Add two validation rules to the ValidationRules element.

Answer: A

Question: 3

You are creating a Windows Presentation Foundation application by using Microsoft .NET Framework 3.5.
You create a window for the application. You add an image to the window.
You need to ensure that the following requirements are met:
The image is scaled to completely fit the client area of the window.
The image aspect ratio is preserved.
The entire image is displayed within the window.
Which code fragment should you use?

A. <Image Source="imageToDisplay.jpg" Stretch="None" />
B. <Image Source="imageToDisplay.jpg" Stretch="Fill" />
C. <Image Source="imageToDisplay.jpg" Stretch="Uniform" />
D. <Image Source="imageToDisplay.jpg" Stretch="UniformToFill" />

Answer: C

Question: 4

You are creating a Windows Presentation Foundation application by using Microsoft .NET Framework 3.5. Your project contains a folder named Data. You add an MP3 file named song.mp3 in the Data folder. You set the Build Action property of the MP3 file to Resource. You need to access the MP3 file from the application. Which code segment should you use?

A. Uri uri = new Uri("/Data/song.mp3", UriKind.Relative);StreamResourceInfo
sri=Application.GetContentStream(uri);Stream stream=sri.Stream;
B. Uri uri = new Uri("/Data/song.mp3", UriKind.Relative);StreamResourceInfo
sri=Application.LoadComponent(uri);Stream stream=sri.Stream;
C. Uri uri = new Uri("/Data/song.mp3", UriKind.Relative);StreamResourceInfo
sri=Application.GetRemoteStream(uri);Stream stream=sri.Stream;
D. Uri uri = new Uri("/Data/song.mp3", UriKind.Relative);StreamResourceInfo
sri=Application.GetResourceStream(uri);Stream stream=sri.Stream;

Answer: D

Question: 5

You are creating a Windows Presentation Foundation application by using Microsoft .NET Framework 3.5.
The application displays an image that is defined as an application resource.
You need to ensure that the following requirements are met:
The image file must appear in the output directory after the build.
The image can be modified without being rebuilt.
What should you do?

A. Include the image in your project. Set the Build Action property for the file to Resource. Set the Copy to Output Directory property to Copy if newer.
B. Include the image in your project. Set the Build Action property for the file to Content. Set the Copy to Output Directory property to Copy if newer.
C. Include the image in your project. Set the Build Action property for the file to Embedded Resource. Set the Copy to Output Directory property to Copy always.
D. Include the image in your project. Set the Build Action property for the file to ApplicationDefinition. Set the Copy to Output Directory property to Copy if newer.

Answer: B

Question: 6

You are creating a Windows Presentation Foundation application by using Microsoft .NET Framework 3.5. The application will display articles that contain photographs, geometric figures, and other rich content. You plan to format the articles in flow documents. You need to select a XAML element that provides the following functionality by default:
Searches the content of any article.
Views any article in single-page and multiple-page layouts.
Adjusts the font size of the content.
What should you do?

A. Encapsulate the articles in a <RichTextBox></RichTextBox> XAML element.
B. Encapsulate the articles in a <FlowDocumentReader></FlowDocumentReader> XAML element.
C. Encapsulate the articles in a <FlowDocumentPageViewer></FlowDocumentPageViewer> XAML element.
D. Encapsulate the articles in a <FlowDocumentScrollViewer></FlowDocumentScrollViewer> XAML element.

Answer: B

Question: 7

You are creating a Windows Presentation Foundation application by using Microsoft .NET Framework 3.5. You write the following code segment (Line numbers are included for reference only).
01 Dim content As Object
02 Dim fileName As String = "theFile"
03 Using xamlFile As New FileStream(fileName & ".xaml", _
04 FileMode.Open, FileAccess.Read)
06 content = TryCast(XamlReader.Load(xamlFile), Object)
07 End Using
08 Using container As Package = Package.Open(fileName & ".xps", _
09 FileMode.Create
11 End Using
You need to ensure that the following requirements are met:
The application converts an existing flow document into an XPS document.
The XPS document is generated by using the flow document format.
The XPS document has the minimum possible size.
Which code segment should you insert at line 10?

A. Using xpsDoc As New XpsDocument(container, _ CompressionOption.SuperFast) Dim rsm As XpsSerializationManager = New _ System.Windows.Xps.XpsSerializationManager(New _ XpsPackagingPolicy(xpsDoc), False) rsm.SaveAsXaml(paginator) End Using
B. Using xpsDoc As New XpsDocument(container, _ CompressionOption.SuperFast) Dim rsm As New XpsSerializationManager(New _ XpsPackagingPolicy(xpsDoc), False) rsm.Commit() End Using
C. Using xpsDoc As New XpsDocument(container, _ CompressionOption.Maximum) Dim rsm As New XpsSerializationManager(New _ XpsPackagingPolicy(xpsDoc), False) Dim paginator As DocumentPaginator = (CType(content, _ IDocumentPaginatorSource)).DocumentPaginator rsm.SaveAsXaml(paginator) End Using
D. Using xpsDoc As New XpsDocument(container, _ CompressionOption.SuperFast) Dim rsm As New XpsSerializationManager(New _ XpsPackagingPolicy(xpsDoc), False) Dim paginator As DocumentPaginator = (CType(content, _ IDocumentPaginatorSource)).DocumentPaginator rsm.SaveAsXaml(paginator) End Using

Answer: C

Question: 8

You are creating a Windows Presentation Foundation application by using Microsoft .NET Framework 3.5.
You add a window that displays three-dimensional graphics.
You need to create a camera that meets the following requirements:
It displays a graphic by excluding the Z-dimension.
It focuses directly on the front portion of the graphic.
Which XAML code fragment should you use?

A. <OrthographicCamera Position="0,0,2" LookDirection="0,2,-1" />
B. <OrthographicCamera Position="0,0,2" LookDirection="0,0,-1" />
C. <PerspectiveCamera Position="0,0,2" LookDirection="0,2,-1" FieldOfView="60" />
D. <PerspectiveCamera Position="0,0,2" LookDirection="0,0,-1" FieldOfView="60" />

Answer: B

Question: 9

You are creating a Windows Presentation Foundation application by using Microsoft .NET Framework 3.5. The application displays documents by using an instance of the FlowDocumentPageViewer class. The instance is named fdpv. Users can highlight and annotate the content of the documents. You need to ensure that annotations made to a document are saved and rendered when the document is displayed again. Which code segment should you use?

A. protected void OnTextInput(object sender, RoutedEventArgs e) { AnnotationService service = AnnotationService.GetService(fdpv); if (service == null) { AnnotationStream = new FileStream("annotations.xml", FileMode.Open, FileAccess.ReadWrite); service = new AnnotationService(fdpv); AnnotationStore store = new XmlStreamStore(AnnotationStream); service.Enable(store); }}private void OnClosing(object sender, System.ComponentModel.CancelEventArgs e) { AnnotationService service = AnnotationService.GetService(fdpv); if (service != null && service.IsEnabled) { service.Store.Flush(); service.Disable(); AnnotationStream.Close(); }}
B. protected void OnLoaded(object sender, RoutedEventArgs e) { AnnotationService service = AnnotationService.GetService(fdpv); if (service == null) { AnnotationStream = new FileStream("annotations.xml", FileMode.Open, FileAccess.ReadWrite); service = new AnnotationService(fdpv); }}private void OnClosing(object sender, System.ComponentModel.CancelEventArgs e) { AnnotationService service = AnnotationService.GetService(fdpv); if (service != null && service.IsEnabled) { service.Store.Flush(); service.Disable(); AnnotationStream.Close(); }}
C. protected void OnLoaded(object sender, RoutedEventArgs e) { AnnotationService service = AnnotationService.GetService(fdpv); if (service == null) { AnnotationStream = new FileStream("annotations.xml", FileMode.Open, FileAccess.ReadWrite); service = new

AnnotationService(fdpv); AnnotationStore store = new XmlStreamStore(AnnotationStream);
service.Enable(store); }}private void OnClosing(object sender,
System.ComponentModel.CancelEventArgs e) { AnnotationService service =
AnnotationService.GetService(fdpv); if (service != null && service.IsEnabled) {
service.Store.Flush(); service.Disable(); AnnotationStream.Close(); }}
D. protected void OnLoaded(object sender, RoutedEventArgs e) { AnnotationService service =
AnnotationService.GetService(fdpv); if (service == null) { AnnotationStream = new
FileStream("annotations.xml", FileMode.Open, FileAccess.ReadWrite); service = new
AnnotationService(fdpv); AnnotationStore store = new XmlStreamStore(AnnotationStream);
service.Enable(store); }}private void OnClosing(object sender,
System.ComponentModel.CancelEventArgs e) { AnnotationService service =
AnnotationService.GetService(fdpv); if (service != null && service.IsEnabled) { service.Disable();
AnnotationStream.Close(); }}

Answer: C

Question: 10

You are creating a Windows Presentation Foundation application. You create a window for the
application. The application contains an audio file named AudioFileToPlay.wav. You need to ensure
that the audio file is played each time you click the client area of the window. What should you do?

A. Add the following XAML line of code to the window. <MediaElement
Source="AudioFileToPlay.wav" />
B. Add the following code segment to the window constructor method in the code-behind file.
SoundPlayer player = new SoundPlayer();player.SoundLocation =
"AudioFileToPlay.wav";player.Play();
C. Add the following code segment to the window MouseDown method in the code-behind file.
MediaPlayer player = new MediaPlayer();player.SetValue(MediaElement.SourceProperty,new
Uri("AudioFileToPlay.wav", UriKind.Relative));player.Play();
D. Add the following XAML code fragment to the window. <Window.Triggers> <EventTrigger
RoutedEvent="Window.MouseDown"> <EventTrigger.Actions> <SoundPlayerAction
Source="AudioFileToPlay.wav"/> </EventTrigger.Actions> </EventTrigger></Window.Triggers>

Answer: D

Question: 11

You create a Windows Presentation Foundation application by using Microsoft .NET Framework 3.5. The application includes a window that displays a rectangle. You need to transform the rectangle by rotating it 45 degrees. Which XAML code fragment should you use?

A. <Rectangle.RenderTransform> <TranslateTransform X="45" Y="45" /></Rectangle.RenderTransform>
B. <RectangleGeometry.Transform> <RotateTransform CenterX="40" CenterY="70" Angle="45" /></RectangleGeometry.Transform>
C. <Rectangle.RenderTransform> <SkewTransform CenterX="25" CenterY="25" AngleX="0" AngleY="45" /></Rectangle.RenderTransform>
D. <Rectangle.RenderTransform> <ScaleTransform CenterX="0" CenterY="0" ScaleX="45" ScaleY="45" /></Rectangle.RenderTransform>

Answer: B

Question: 12

You are creating a Windows Presentation Foundation application by using Microsoft .NET Framework 3.5. The application contains a custom event handler. You need to ensure that the custom event handler always executes when the event occurs, even if the Handled property is set to true. What should you do?

A. Set the HandledEventsToo property to true in the event definition code segment.
B. Set the HandledEventsToo property to false in the event definition code segment.
C. Set the HandledEventsToo property to true in the event definition XAML code fragment.
D. Set the HandledEventsToo property to false in the event definition XAML code fragment.

Answer: A

Question: 13

You are creating a Windows Presentation Foundation application by using Microsoft .NET Framework 3.5.
You add a CommandBinding element to the Window element. The command has a keyboard gesture CTRL+H. The Window contains the following MenuItem control.
<MenuItem Header="Highlight Content" Command="local:CustomCommands.Highlight" />
You need to ensure that the MenuItem control is disabled and the command is not executable when the focus shifts to a TextBox control that does not contain any text. What should you do?

A. Set the IsEnabled property for the MenuItem control in the GotFocus event handler for the TextBox controls.
B. Set the CanExecute property of the command to Highlight_CanExecute. Add the following method to the code-behind file for the window. private void Highlight_CanExecute(object sender, CanExecuteEventArgs e) { TextBox txtBox = sender as TextBox; e.CanExecute = (txtBox.Text.Length > 0);}
C. Set the CanExecute property of the command to Highlight_CanExecute. Add the following method to the code behind file for the window. private void Highlight_CanExecute(object sender, CanExecuteEventArgs e) { TextBox txtBox = e.Source as TextBox; e.CanExecute = (txtBox.Text.Length > 0);}
D. Set the CanExecute property of the command to Highlight_CanExecute. Add the following method to the code behind file for the window. private void Highlight_CanExecute(object sender, CanExecuteEventArgs e) { MenuItem menu = e.Source as MenuItem; TextBox txtBox = menu.CommandTarget as TextBox; Menu.IsEnabled = (txtBox.Text.Length > 0);}

Answer: C

Question: 14

You are creating a Windows Presentation Foundation application by using Microsoft .NET Framework 3.5. The application defines a BrowserWindow class. Each instance of the BrowserWindow class allows the user to browse a Web site in a separate window. When a new browser window is opened, the user is redirected to a predefined URL.
You write the following code segment.
01 private void OpenNewWindow(object sender, RoutedEventArgs e) 02 {
03 Thread newWindowThread = new Thread(new ThreadStart(NewThreadProc));
04
05 newWindowThread.Start();
06 }
07 private void NewThreadProc()
08 {
09
10 }
You need to ensure that the following requirements are met:
The main window of the application is not blocked when an additional browser window is created.
The application completes execution when the main window of the application is closed. What should you do?

A. Insert the following code segment at line 04.
newWindowThread.SetApartmentState(ApartmentState.STA);newWindowThread.IsBackground = true; Insert the following code segment at line 09. BrowserWindow newWindow = new BrowserWindow();newWindow.Show();Application app = new Application();app.Run(newWindow);
B. Insert the following code segment at line 04. newWindowThread.IsBackground = true; Insert the following code segment at line 09.
newWindowThread.SetApartmentState(ApartmentState.STA);BrowserWindow newWindow = new BrowserWindow();newWindow.Show();Application app = new Application();app.Run(newWindow);

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C. Insert the following code segment at line 04.
newWindowThread.SetApartmentState(ApartmentState.STA);newWindowThread.IsBackground =
false; Insert the following code segment at line 09. BrowserWindow newWindow = new
BrowserWindow();System.Windows.Threading.Dispatcher.Run();newWindow.Show();
D. Insert the following code segment at line 04.
newWindowThread.SetApartmentState(ApartmentState.STA);newWindowThread.IsBackground =
true; Insert the following code segment at line 09. BrowserWindow newWindow = new
BrowserWindow();newWindow.Show();System.Windows.Threading.Dispatcher.Run();

Answer: D

Question: 15

You are creating a Windows Presentation Foundation browser application by using Microsoft .NET
Framework 3.5.
The application contains a PageFunction class named CustomerPage.
You need to ensure that the CustomerPage page function can perform the following tasks:
Accept a customer ID in the form of a string.
Allow the user to update customer information on the page.
Return an instance of a Customer object with the updated information. Which class definition should
you use?

A. public partial class CustomerPage : PageFunction<String> { public CustomerPage(string
customerID) { ... }}
B. public partial class CustomerPage : PageFunction<Customer> { public CustomerPage(string c)
{ ... }}
C. public partial class CustomerPage : PageFunction<String> { public CustomerPage() { ... } public
Customer ReturnCustomer(string customerID) { ... }}
D. public partial class CustomerPage : PageFunction<Customer> { public CustomerPage() { ... }
public Customer ReturnCustomer(string customerID) { ... }}

Answer: B

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