

# Microsoft

**Exam 98-372**

**Microsoft .NET Fundamentals**

Version: 6.1

**[ Total Questions: 230 ]**

**Topic 1, C#****Question No : 1 - (Topic 1)**

Which collection enforces type safety?

- A. Queue
- B. Hashtable
- C. ArrayList
- D. List<T>

**Answer: D**

**Question No : 2 - (Topic 1)**

You need to trace the execution of an application that contains C# code and Microsoft Visual Basic .NET code.

Which tool should you use?

- A. Machine Debug Manager
- B. Remote Debug Monitor
- C. Microsoft Visual Studio
- D. CLR Profiler

**Answer: C**

**Question No : 3 - (Topic 1)**

Which core technology allows interoperability between Microsoft Visual Basic .NET code and C# code?

- A. Microsoft Visual Studio
- B. Windows 7
- C. Microsoft Intermediate Language (MSIL)
- D. Windows Azure

**Answer: C**

**Question No : 4 - (Topic 1)**

What is an advantage of strongly typed code languages like .NET?

- A. Use of efficient type casting.
- B. Use of less memory.
- C. Capturing of errors during compilation.
- D. Improved readability.

**Answer: C**

**Question No : 5 - (Topic 1)**

Why do managed languages use references and not pointers?

- A. Pointer notation requires more characters than reference notation.
- B. Pointers are stored by using a fixed amount of memory.
- C. Pointers are not type-safe.
- D. Null pointers can lead to run-time errors.

**Answer: C**

**Explanation:** Type-safe accesses only the memory locations it is authorized to access, and only in well-defined, allowable ways. Type-safe code cannot perform an operation on an object that is invalid for that object.

**Question No : 6 - (Topic 1)**

What is the name of the environment that runs .NET managed code?

- A. Common Language Runtime (CLR)
- B. Component Object Model (COM)
- C. Virtual Private Network (VPN)
- D. Microsoft Intermediate Language (MSIL)

Answer: A

**Question No : 7 - (Topic 1)**

You need to suspend the current thread until all Finalize() methods have been processed.

Which garbage collection method should you use?

- A. WaitForPendingFinalizers
- B. SuppressFinalize
- C. Collect
- D. Dispose

Answer: D

**Question No : 8 - (Topic 1)**

Which feature is automatically handled in managed code but must be explicitly handled in unmanaged code?

- A. Namespaces
- B. Code signing
- C. Memory disposal
- D. Exception handling

Answer: C

**Explanation:** Unmanaged code does not have a garbage collector and you will have to keep track of all your memory allocations to avoid memory leaks.

**Question No : 9 - (Topic 1)**

You want to access a native Win32 function from a .NET application.

You import the function.

Which two keywords should you use to define the function? (Each correct answer presents part of the solution. Choose two.)

- A. Extern
- B. Static
- C. Private
- D. Public

**Answer: A,B**

**Explanation:** Example:

```
using System.Runtime.InteropServices;
using System.Windows.Interop;
using System.Diagnostics;
using System.Threading;
```

```
public partial class MainWindow : Window
{
    [DllImport("user32.dll", SetLastError = true)]
    static extern IntPtr SetParent(IntPtr hWndChild, IntPtr hWndNewParent);

    [DllImport("user32.dll", SetLastError = true)]
    static extern IntPtr FindWindow(string lpClassName, string lpWindowName);

    public MainWindow()
    {
        InitializeComponent();
    }

    private void btnHost_Click(object sender, RoutedEventArgs e)
    {
        WindowInteropHelper wndHelp = new WindowInteropHelper(this);
        Process.Start("Notepad.exe");
        // Sleep the thread in order to let the Notepad start completely
        Thread.Sleep(50);
        SetParent(FindWindow("NotePad", "Untitled - Notepad"), wndHelp.Handle);
    }
}
```

**Question No : 10 - (Topic 1)**

A class named Student is contained inside a namespace named Contoso.Registration. Another class named Student is contained inside a namespace named Contoso.Contacts.

You need to use both classes within the same code file.

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

- A.** Add the following line of code on the top of the code file,  
Using Contoso;  
Refer to the classes by using the Student class wrapped within the regions named Registration and Contacts.
- B.** Refer to the classes by using their fully qualified class names, Contoso.Registration.Student and Contoso.Contacts.Student.
- C.** Add the following lines of code on the top of the code file.  
Using Contoso.Contacts;  
Using Contoso.Registration;  
Refer to the classes by using the Student class.
- D.** Add the following lines of code on the top of the code file.  
Using RStudent = Contoso.Registration.Student;  
Using CStudent = Contoso.Contacts.Student;  
Refer to the classes as RStudent and CStudent.

**Answer: A,C**

**Question No : 11 - (Topic 1)**

Which describes the effect of applying the protected accessibility modifier to a method?

- A.** The method is available to all classes derived from the declaring class.
- B.** The method is available only to other methods in the same class.
- C.** The method cannot be overridden in child classes.
- D.** The method is available only to classes in the same assembly.

**Answer: A**

**Question No : 12 - (Topic 1)**

You want to create a class named ShoppingCart that has a type argument named TItem. The TItem type argument must be a value type.

Which code segment should you use to define the ShoppingCart class?

A. 

```
public class ShoppingCart<TItem>
    where TItem:new()
{
}
```

B. 

```
public class ShoppingCart<TItem>
    where TItem : class
{
}
```

C. 

```
public class ShoppingCart<TItem>
    where TItem : Type
{
}
```

D. 

```
public class ShoppingCart<TItem>
    where TItem : struct
{
}
```

- A. Option A
- B. Option B
- C. Option C

D. Option D

**Answer: D**

**Question No : 13 - (Topic 1)**

You create a class library named Contoso.Business. The library is used in a Windows application named Contoso.Ui.

In which file should you store application configuration settings during deployment?

- A. Web.config
- B. Machine.config
- C. Contoso.Ui.config
- D. Contoso.Business.config

**Answer: C**

**Explanation:** The project system stores application settings in two XML files: an app.config file, which is created at design time when you create the first application setting; and a user.config file, which is created at run time when the user who runs the application changes the value of any user setting.

**Question No : 14 - (Topic 1)**

Which is the base class of all classes in the .NET Framework?

- A. System.Net
- B. System.Drawing
- C. System.Object
- D. System

**Answer: C**

**Question No : 15 - (Topic 1)**



You want to raise a custom exception.

Which keyword should you use?

- A. Finally
- B. Catch
- C. Try
- D. Throw

**Answer: D**

**Question No : 16 - (Topic 1)**

What is the purpose of the app.config file?

- A. To configure the version of .NET targeted by the application.
- B. To load references to third-party libraries used by the application.
- C. To find out the programming language of the application.
- D. To configure the target operating system of the application.

**Answer: A**

**Question No : 17 - (Topic 1)**

What is the characteristic of a delegate?

- A. A type-safe function pointer
- B. An object that raises an event
- C. A tightly coupled event
- D. A property function that includes optional parameters

**Answer: A**

**Explanation:** The .NET Framework defines a special type (Delegate) that provides the functionality of a function pointer.

A delegate is a class that can hold a reference to a method. Unlike other classes, a delegate class has a signature, and it can hold references only to methods that match its signature. A delegate is thus equivalent to a type-safe function pointer or a callback.

**Question No : 18 - (Topic 1)**

You define a method according to the following code segment. (Line numbers are included for reference only.)

```
01 void DoWork()  
02 {  
03     try  
04     {  
05         //Method body  
06     }  
07     catch (Exception)  
08     {  
09     }  
10     finally  
11     {  
12     }  
13 }
```

Where should you insert code that must be executed, regardless of whether or not an error is thrown?

- A. Between lines 05 and 06
- B. Between lines 08 and 09
- C. Between lines 11 and 12
- D. Between lines 12 and 13

**Answer: C**

**Question No : 19 - (Topic 1)**

You write code that reads a file from the disk.