

Class Test on MS .NET- PGDAC 2023

Total points 15/20 ?

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✓ 1. Which of the following statements are TRUE about the .NET CLR? *

1. It provides a language-neutral development & execution environment.
2. It ensures that an application would not be able to access memory that it is not authorized to access.
3. It provides services to run "managed" applications.
4. The resources are garbage collected.
5. It provides services to run "unmanaged" applications.

- ☐ Only 1 and 2
- ☐ Only 1, 2 and 4
- ☒ 1, 2, 3, 4
- ☐ Only 4 and 5
- ☐ Only 3 and 4



.../1

- ☐ Option 1



✓ 2. Code that targets the Common Language Runtime is known as * 1/1

- ☐ Unmanaged
- ☐ Distributed
- ☐ Legacy
- ☒ Managed Code
- ☐ Native Code



✗ 3. Which of the following statements is correct about Managed Code? * 0/1

- ☐ Managed code is the code where resources are Garbage Collected.
- ☐ Managed code is the code that runs on top of Windows.
- ☐ Managed code is the code that is written to target the services of the CLR.
- ☐ Managed code is the code that can run on top of Linux.
- ☒ Managed code is the code that is compiled by the JIT compilers.



Correct answer

- ☒ Managed code is the code that is written to target the services of the CLR.



✓ 4. Which of the following is the root of the .NET type hierarchy? * * 1/1

- ☒ System.Object
- ☐ System.Type
- ☐ System.Base
- ☐ System.Parent
- ☐ System.Root



✓ 5. A function returns a value, whereas a subroutine cannot return a value. *1/1

- ☒ True
- ☐ False



✓ 6. Which of the following statements are correct about functions and subroutines used in C#.NET? *1/1

1. A function cannot be called from a subroutine.
2. The ref keyword causes arguments to be passed by reference.
3. While using ref keyword any changes made to the parameter in the method will be reflected in that variable when control passes back to the calling method.
4. A subroutine cannot be called from a function.
5. Functions and subroutines can be called recursively

- ☐ 1, 2, 4
- ☒ 2, 3, 5
- ☐ 3, 5
- ☐ 4, 5
- ☐ None of these



✓ 7*

1/1

Which of the following will be the correct output for the C#.NET program given below?

```
namespace CanarysConsoleApplication
{
    class SampleProgram
    {
        static void Main(string[] args)
        {
            int a = 5;
            int s = 0, c = 0;
            Proc(a, ref s, ref c);
            Console.WriteLine(s + " " + c);
        }
        static void Proc(int x, ref int ss, ref int cc)
        {
            ss = x * x;
            cc = x * x * x;
        }
    }
}
```

- ☐ 0 0
- ☐ 25 25
- ☐ 125 125
- ☒ 25 125
- ☐ None of the above



✗ 8. Which of the following statements are correct about functions used in C#.NET? *0/1

1. Function definitions cannot be nested.
2. Functions can be called recursively.
3. If we do not return a value from a function then a value -1 gets returned.
4. To return the control from middle of a function exit function should be used.
5. Function calls can be nested.

☐ 1, 2, 5

☒ 2, 3, 5

✗

☐ 2, 3

☐ 4, 5

☐ None of these

Correct answer

☒ 1, 2, 5



✓ 9*

1/1

```
class Program
{
    static void Main(string[] args)
    {
        int i = 5;
        int j;
        method1(ref i);
        method2(out j);
        Console.WriteLine(i + " " + j);
    }
    static void method1(ref int x)
    {
        x = x + x;
    }
    static void method2(out int x)
    {
        x = 6;
        x = x * x;
    }
}
```

- ☐ a) 36, 10
- ☒ b) 10, 36
- ☐ c) 0, 0
- ☐ d) 36, 0



✓ 10.Boxing converts a value type on the stack to an _____ on the heap. * 1/1

- ☐ a) Bool type
- ☐ b) Instance type
- ☐ c) Class type
- ☒ d) Object type



✓ 11.C# has _____ operator, useful for making two way decisions * 1/1

- ☐ a) Looping
- ☐ b) Functional
- ☐ c) Exponential
- ☒ d) Conditional



✓ 12.Correct statement about constructors in C#.NET is? * 1/1

- ☐ a) Constructors can be overloaded
- ☐ b) Constructors are never called explicitly
- ☐ c) Constructors have same name as name of the class
- ☒ d) All of the mentioned



✗ 13.Which among the following is the correct statement: Constructors are used to? *0/1

- ☐ a) initialize the objects
- ☐ b) construct the data members
- ☒ c) initialize the objects & construct the data members ✗
- ☐ d) none of the mentioned

Correct answer

- ☒ a) initialize the objects

✓ 14.Which of the following statements is correct about constructors in C#.NET? *1/1

- ☐ a) A constructor cannot be declared as private
- ☐ b) A constructor cannot be overloaded
- ☒ c) A constructor can be a static constructor ✓
- ☐ d) None of the mentioned

✓ 15.What is the return type of constructors? * 1/1

- ☐ a) int
- ☐ b) float
- ☐ c) void
- ☒ d) none of the mentioned ✓





16.What will be the output of the following C# code? *

1/1

```
namespace Canarys_Abstract_Class
{
abstract class A
{
    int i;
    public abstract void display();
}
class B: A
{
    public int j;
    public override void display()
    {
        Console.WriteLine(j);
    }
}
class Program
{
    static void Main(string[] args)
    {
        B obj = new B();
        obj.j = 2;
        obj.display();
        Console.ReadLine();
    }
}
```

- ☐ a) 0
- ☒ b) 2
- ☐ c) Compile time error
- ☐ d) 1



✓ 17.What will be the output of the following C# code? *

1/1

```
namespace ConsoleApplication4
{
    abstract class A
    {
        public int i ;
        public int j ;
        public abstract void display();
    }
    class B: A
    {
        public int j = 5;
        public override void display()
        {
            this.j = 3;
            Console.WriteLine(i + " " + j);
        }
    }

    class Program
    {
        static void Main(string[] args)
        {
            B obj = new B();
            obj.i = 1;
            obj.display();
            Console.ReadLine();
        }
    }
}
```

- ☐ a) 1, 5
- ☐ b) 0, 5
- ☐ c) 1, 0



☒ d) 1, 3



✓ 18. Which of the following modifiers is used when an abstract method is redefined by a derived class? *1/1

☐ a) Overloads

☒ b) Override



☐ c) Base

☐ d) Virtual

✗ 19. Which statement correctly defines Interfaces in C#.NET? * 0/1

☒ a) Interfaces cannot be inherited



☐ b) Interfaces consists of data static in nature and static methods

☐ c) Interfaces consists of only method declaration

☐ d) None of the mentioned

Correct answer

☒ d) None of the mentioned



✓ 20. Which of the following cannot be used to declare an interface correctly?

1/1

- ☐ a) Properties
- ☐ b) Methods
- ☒ c) Structures
- ☐ d) Events



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