Question # 1

🔁 Revisit

In C#, having unreachable code is always a/an _____.

Choose the best option

- ○ Method
- ○ Function
- ○ Error
- ○ Iterative

Question # 2

What is the output of the following code?

```
class overload
{
    public int x;
    int y;
    public int add(int a)
    {
        x = a + 1;
        return x;
    }
    public int add(int a, int b)
    {
        x = a + 2;
        return x;
    }
}
class Program
{
    static void Main(st
```

Choose the best option

- ○ 8
  8
- ○ 0
  2
- ○ 8
  10
- ○ 7
  8

Question # 3

What will be the output of the following C# code?

```
static void Main(string[] args)
{
    int i, j;
    int[, ] arr = new int[ 3, 3];
    for (i = 0; i < 3; ++i)
    {
        for (j = 0; j < 3; ++j)
        {
            arr[i, j] = i * 2 + i * 2;
            Console.WriteLine(arr[i, j]);
        }
    Console.ReadLine();
    }
}
```

Choose the best option

- ○ 0, 0, 0 4, 4, 4 8, 8, 8
- ○ 4, 4, 4 8, 8, 8 12, 12, 12
- ○ 8, 8, 8 12, 12, 12 16, 16, 16
- ○ 0, 0, 0 1, 1, 1 2, 2, 2

Question # 4

Revisit

Consider the following code and predict the output using System:
```
class ExcDemo3
{
    public static void Main()
    {
        int[] numer = { 4, 8, 16, 32, 64, 128 };
        int[] denom = { 2, 0, 4, 4, 0, 8 };
        for (int i = 0; i < numer.Length; i++)
        {
            try
            {
                int[] div = new int[7];
                div[i] = numer[i] / denom[i];
            }
            catch (DivideByZeroException)
            {
                Console.WriteLine("Can not Divide by zero");
            }
            catch (IndexOuto
```

Choose the best option

- ○ DivideByZeroException
- ○ FormatException
- ○ IndexOutofBoundsException
- ○ None from the options

Question # 5

Revisit

_____ensures complete interoperability among applications, regardless of the language used to create the application.

Choose the best option

- ○ CLR
- ○ CLS
- ○ CTS
- ○ FCL

Question # 6

Revisit

Which of the following keyword is used to overload user defined types?

Choose the best option

- ○ Op
- ○ Opoverload
- ○ Operator
- ○ Operatoroverload

Question # 7

Revisit

Which of the following are valid states of Thread?
1. Unstarted
2. Runnable (Ready to run)
3. Running
4. Not Runnable
5. Dead (Terminated)

Choose the best option

- ○ 1,2,3,4,5
- ○ 1,2,4,5
- ○ 1,2,3,5
- ○ 1,2,3,4

Question # 8

C# treats the multiple catch statements like cases in a _____ statement.

Choose the best opt

- ○ If
- ○ Switch
- ○ For
- ○ While

Question # 9

Valid Code for Creating a SqlConnection Object would be:

Choose the best option

- ○ SqlConnection conn = NEW SqlConnection("Data Source=(local);Initial Catalog=Northwind; Integrated Security=SSPI");
- ○ SqlConnect conn = NEW SqlConnection("Data Source=(local);Initial Catalog=Northwind; Integrated Security=SSPI");
- ○ SqlConnection conn = NEW SqlConnect("Data Source=(local);Initial Catalog=Northwind; Integrated Security=SSPI");
- ○ All of the above

Question # 10

State whether the following statements about the managed and unmanaged code are TRUE or FALSE.
i) Managed code is the code that is executed directly by the CLR.
ii) Managed code directly compiles to the machine code and runs on the machine where it has to be compiled.
iii) Unmanaged code does not have services such as security or memory management.

Choose the best option

- ○ i-True, ii-False, iii-False
- ○ i-False, ii-True, iii-False
- ○ i-True, ii-False, iii-True
- ○ i-False, ii-False, iii-True

Question # 11

How do you manage states in asp.net mvc application

Choose the best option

- ○ Application
- ○ Session
- ○ ViewBag
- ○ All of the above

Question # 12

What does the following C# code specify?
object Invoke(object obj, object[] parameters)

Choose the best option

- ○ Calling a type using invoke()
- ○ Any arguments that need to be passed to the method are specified in the array parameters
- ○ The value returned by the invoked method is returned by Invoke()
- ○ All of the mentioned

Question # 13

Revisit

_____ methods are not supported for dynamic types.

Choose the best option

○ Anonymous
○ Static
○ Abstract
○ Extension

Question # 14

Revisit

How do you get information from a form that is submitted using the "post" method?

Choose the best option

○ Request.QueryString
○ Request.Form
○ Response.write
○ Response.writeln

Question # 15

Revisit

The reason that C# does not support multiple inheritances is because of _____.

Choose the best option

○ Method collision
○ Name collision
○ Function collision
○ Interface collision

Question # 16

Revisit

Which among the following is not a type of contract in wcf?

Choose the best option

○ Service Contract
○ Operation Contract
○ Security Contract
○ None of the above

Question # 17

Choose the incorrect statement about delegates?

Choose the best option

○ delegates are not type safe
○ delegates can be used to implement callback notification
○ delegate is a user defined type
○ delegates permits execution of a method in an asynchronous manner

Question # 18

⟳ Revisit

Choose the best option

The_____keyword is new to C# 4.0, and is used to tell the compiler that a variable's type can change or that it is not known until runtime.

- ○ Covariance
- ○ Dynamic
- ○ Contravariance
- ○ Object

Question # 19

Choose the correct statement from the following:

Choose the best option

- ○ Indexers are location indicators
- ○ Indexers are used to access class objects
- ○ Indexer is a form of property and works in the same way as a property
- ○ All of the mentioned

Question # 20

How to check Request coming from which controller using MVC ASP.Net?

Choose the best option

- ○ var _controller = HttpContext.Current.Request.RequestContext.Values["Controller"].ToString();
- ○ var _controller = HttpContext.Current.Request.RequestContext.RouteData.Values["Controller"].ToString();
- ○ var _controller = RouteData.Values["Controller"].ToString();
- ○ None of the above

Question # 21

⟳ Revisit

Choose the best option

Which component in Asp.net MVC can be used to pass data between controller to view ?(Assume you have to pass current date and time)

- ○ ViewData["DateTime"]=DateTime.Now.ToString();
- ○ ViewState["DateTime"]=DateTime.Now.ToString();
- ○ ViewBag["DateTime"]=DateTime.Now.ToString();
- ○ DataView["DateTime"]=DateTime.Now.ToString();

Question # 22

How to Print value from Controller to View in MVC ?

Choose the best option

○ ViewBag.ECMDetail = "my message"; and in view @ViewBag.ECMDetail

○ ViewBag.ECMDetail = "my message"; and in view ViewBag.ECMDetail

○ ViewBag.ECMDetail = "my message"; and in view ViewBag.Title

○ None of the above

Question # 23

Inheritance is _____ in nature.

⟳ Revisit

Choose the best

○ Commutative

○ Associative

○ Transitive

○ Iterative

Question # 24

⟳ Revisit

Complete the following:
IsNullOrEmpty() is used to check whether the specified string is null or an Empty string. A string
will be _____ if it has not been assigned a value. A string will be empty if it is assigned _____ or
_____.

Choose the best option

○ null, "", String.Empty

○ "", null, String.Empty

○ null, String.Empty, ""

○ "", String.Empty, null

Question # 25

What is the correct definition of extension methods?

Choose the best option

○ The extension are static methods that allows developers to extend functionality of an
existing type without creating a new derived type, recompiling, or otherwise modifying the
original type and an instance methods on the extended type.

○ The extension are static methods that allows developers to extend functionality of an
existing type

○ The extension are static methods that allows developers to extend functionality of an
existing type and are instance methods.

○ None of the above

Question # 26

What will be the output of the following C# code?

```
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;
```

🔁 Revisit

Choose the best option

○ 36, 10
○ 10, 36
○ 0, 0
○ 36, 0

Question # 27

You are developing an ASP.NET MVC application. You create a view that will be returned by action methods in multiple controllers. You need to place the view in the appropriate folder. To which subfolder within the Views folder should you add the view?

🔁 Revisit

Choose the best option

○ Shared
○ Default
○ Master
○ None of the above

Question # 28

Which operator among the following signifies the destructor operator?

🔁 Revisit

Choose the best o

○ ::
○ :
○ ~
○ &

Question # 29

You have declared an event on your class and you want outside users of your class to raise this event. What do you do?

🔁 Revisit

Choose the best option

○ Add a public method to your class that raises the event
○ Make the event public
○ Use a public delegate instead of an event
○ Use a custom event accessor to give access to outside users

Question # 30

Revisit

What will be the output of the following C# code snippet?

```
class Program
{
static void Main(string[] args)
{
string[] strs = {"alpha", "beta", "gamma"};
var chrs = from str in strs
let chrArray = str.ToCharArray()
from ch in chrArray
orderby ch
select ch;
Console.WriteLine("The individual characters in sorted order:");
foreach (char c in chrs)
    Console.Write(c + " ");
Console.WriteLine();
Console.ReadLine();
}
}
```

Choose the best option

- ○ a a l h a b g m m a p e t a
- ○ a a a a a b e g h l m m p t
- ○ a g h l m m p t a a a a b e
- ○ Run time error

Question # 31

Revisit

_____parameters allow you to give a method parameter a default value so that you do not have to specify it every time you call the method.

Choose the best option

- ○ optional
- ○ named
- ○ out
- ○ ref

Question # 32

Revisit

"Consider the below scenario:

John is working as software developer for Blue Diamond Corporation,currently he is developing aweb application for one of the leading retail book shop. He is using EF and LINQ to work with databases.He needs to write a LINQ query which will display all the details about books whose"" Price"" is greater than 50 and ""QuantityInStock"" should be greater than 100.
Which of the following LINQ expression will best suit his requirement?"

Choose the best option

- ○ var result =
  from b in Books
  select b
  where b.QuatityInStock > 100 AND b.Price > 50.00;

- ○ var result =
  from b in Books
  where b.QuatityInStock > 100 AND b.Price > 50.00
  select b;

- ○ var result =
  from books b
  select books
  where b. QuatityInStock > 100 AND b.Price > 50.00

- ○ var result =
  from books b
  where b. QuatityInStock > 100 AND b.Price > 50.00
  select books

Question # 33

Revisit

Find the error in the below code snippet.

```
class Employee
{
int EmpId;
public int Employee()
{
    EmpId = 1001;
}
}
```

Choose the best option

- ○ No Error
- ○ Return type is not possible in constructor
- ○ Access specifier is not possible in constructor
- ○ Constructor must have different name than class

Question # 34

Revisit

Choose the best option

List<T>.Contains(T) method is used to check whether an element is in the List<T> or not. The return type is:

○ int

○ Boolean

○ void

○ var

Question # 35

Revisit

Choose the best option

State whether the following statements about the Microsoft Intermediate Language (MSIL) are TRUE or FALSE.

i. The MSIL code includes instructions to load, initialize and invoke methods on objects.

ii. The MSIL code is collected and assembled in the form of byte codes and is converted to a .NET assembly.

○ i-True, ii-False

○ i-False, ii-True

○ i-True, ii-True

○ i-False, ii-False

Question # 36

Revisit

Choose the best option

The infrastructure that supports dynamic operations at run time is called the_____.

○ CLR

○ CTS

○ CLS

○ DLR

Question # 37

Revisit

Choose the best option

In C# which one of the following modifier do you use in a base class to require any derived class to implement a class member?

○ Abstract

○ Virtual

○ Must Override

○ Sealed

Question # 38

The C# compiler used in .NET CORE is _____.

Revisit

Choose the best option

- ○ csc.exe
- ○ Roslyn
- ○ Typescript
- ○ core.exe

Question # 39

What is used in the following scenario :
When working with a query expression, a variable that can store the result of the sub-expression in order to reuse it in the upcoming clause.

Revisit

Choose the best option

- ○ let
- ○ var
- ○ dynamic
- ○ generic expression

Question # 40

You have to create a collection of Order objects.The collection must meet the following requirements:
-Use strongly typed members
-Process Order objects in first-in-first-out order.
-Store values for each Order objects
-Use Zero based indices.
Which collection type must be used to meet all the above requirements?

Revisit

Choose the best option

- ○ Stack<T>
- ○ Queue<T>
- ○ LinkedList<T>
- ○ Dictionary<K,V>