Checklist :

I. Q & A

II. Ôn tập Quizzes

Các bạn xem bài thật kỹ rồi Q & A ?

Q1. For the following program :

```
static void Test(int a, out int b, ref int c)
{
    b = 2;
    a = c++;
    b = a + c;
    c = ++b;
    return ;
}
static void Main(string[] args)
{

    int a = 2, b = 3, c = 1;
    Test(c, out a, ref b);
    Console.WriteLine("a:{0},b:{1},c:{2}", a, b, c);
    Console.WriteLine();
}
```

The output will be :

A: a=4,b=4,c=1
B: a=3,b=4,c=3
C: a=8,b=8,c=1
D: a=4,b=4,c=3

Q2. For the following program :

```
static int Test(out int a, ref int b)
{
    int t = a;
    a = b;
    b = t;
}
static void Main(string[] args)
{
    int a = 2, b = 1;
    Test(out a, ref b);
    Console.WriteLine("a:{0},b:{1}", a, b);
    Console.WriteLine();
}
```

The output will be :

A: a=1,b=2

B: a=2,b=1

C: An exception wil be thrown.

D: Compile-time error

Q3. For the following program :

```
class A
{
    static A() {
        Console.Write("1");
    }
    public A()
    {
        Console.Write("2");
    }
    public static void Print()
    {
        Console.Write("3");
    }
}
class Program {
    static void Main(string[] args)
    {
        A.Print();
        Console.WriteLine();
    }
}
```

The output will be :

A: 13
B: 12
C: An exception will be thrown.
D: 21

Q4: For the following program :

```
static T  Test<T>(T a, T b)
{
   a++;
   ++b;
   T c = a + b;
   return c;
}
static void Main(string[] args)
{
   int a = 3, b = 4;
   Console.WriteLine(Test<int>(a,  b));
 }
```

The output will be :

a : 7

b : 8

c : 9

d: Compile-time error

Q5: . For the table named Products:

Products (Id int key, Name varchar(30))

Records had inserted:

[{1,'Milk'} , {2,'Coffee'}]

For the following program :

```
string strConnection =
   @"server =(local);database=abc;uid=sa;pwd=123";
string SQL = "select * from Products";
SqlConnection cnn = new SqlConnection(strConnection);
SqlCommand cmd = new SqlCommand(SQL, cnn);
SqlDataReader rd = cmd.ExecuteReader();
while (rd.Read())   {
   Console.WriteLine(rd.GetString(1));
}
cnn.Close();
```

The output will be :

a.Milk
Coffee

b.Coffee
Milk

c.Compiled-time error

d.Run-time error

Q6: For the table named Products:

Products (Id int key, Quantity int)

Records has inserted:

[{1, 20 } , {2, 10}]

For the following program :

```
string strConnection =
  @"server=(local);database=abc;uid=sa;pwd=123";
string SQL = "select * from Products";
SqlConnection cnn = new
                  SqlConnection(strConnection);
SqlCommand cmd = new SqlCommand(SQL, cnn);
cnn.Open();
SqlDataReader rd = cmd.ExecuteReader();
Console.WriteLine(rd.FieldCount);
cnn.Close();
```

The output will be :

a. 2

b. 1

c. Compiled-time error

d. Run-time error

Q7. For the following program :

```
class A{
    static A() {
        Console.Write("A");
    }
    public A()
    {
        Console.Write("B");
    }
    public  void Print()
    {
        Console.Write("C");
    }
}
class Program {
    static void Main(string[] args)
    {
        new A().Print();
        Console.WriteLine();
    }
}
```

The output will be :

A: BAC
B: ABC
C: CAB
D: ACB

Q8. For the following program :

```
class A{
      int x = 1;
      public A() {
          x = 3;
      }
      public void Print()
      {
          Console.Write(x);
      }
  }
  class B : A
  {
      int x;
      public B() {
          x = 5;
      }
  }
  class Program {
      static void Main(string[] args)
      {
          B b1 = new B();
          b1.Print();
          Console.WriteLine();
      }
  }
```

The output will be :

A: 3
B: 1
C: 5
D: An exception will be thrown.

Q9. For the following program

```
class A{
     int x ;
     public A() {
         x = 3;
     }
     public  void Print()
     {
         Console.Write(x);
     }
 }
 class B : A
 {
     int x;
     public B() {
         x = 2;
     }
     public new void Print()
     {
         Console.Write(x);
     }
 }
 class Program {
     static void Main(string[] args)
     {
         A a = new B();
         a.Print();
         Console.WriteLine();
     }
 }
```

The output will be :

A: 3
B: 2
C: Compile-time error
D: Run-time error

Q10. For the following program

```
class A{
     public void Print(){
         Console.Write("A");
     }
 }
 class B {
     public void Display(){
         Console.Write("B");
     }
 }

 class Program {
     delegate void test();
     static void Main(string[] args)
     {
         test t = new test(new A().Print);
         t += new B().Display;
         t();
         Console.WriteLine();
     }
 }
```

The output will be :

A: AB
B: BA
C: Compile-time error.
D: An exception will be thrown.

Q11. For the following program

```
class A{
     public void Print(){
         System.Threading.Thread.Sleep(2000);
         Console.Write("1");
     }
 }
 class B {
     public void Display(){
         Console.Write("2");
     }
 }

 class Program {
     delegate void test();
     static void Main(string[] args)
     {
         test t = new test(new A().Print);
         t.BeginInvoke(null, null);
         new B().Display();
         Console.ReadLine();
     }
 }
```

The output will be :

A: 12
B: 21
C: Compile-time error.
D: An exception will be thrown.

Q12. For the following program

```
class A{
    public virtual void Print(){
        Console.Write("Hello");
    }
}
class B : A {
    public override void Print(){
        Console.Write("Hi");
    }
}
class Program {
    static void Main(string[] args)
    {
        A a = new B();
        a.Print();
        Console.ReadLine();
    }
}
```

The output will be :

A: Hi

B: Hello

C: Error because can not assign an instance of B to a

D: The output will be “Hi” if replace “override” by “new” keyword

Q13. For the following program

```
public delegate void SimpleDelegateHandler(int x);
 class Program {
     int s = 0;
     public event SimpleDelegateHandler myEvent;
     public void run(int n)  {
         myEvent += delegate (int x) {
             s = x * x;
         };
         myEvent += delegate {
             Console.WriteLine("{0}",s);
         };
         myEvent(n);
     }
     static void Main(string[] args)
     {
         new Program().run(3);
         Console.ReadLine();
     }
 }
```

The output will be :

A: 9
B: 0
C: 3
D: An exception will be thrown.

Q14.

Which of the following statement to view Win32 File Header of MathLibrary.dll ?

a.dumpbin /headers MathLibrary.dll
b.dumpbin /head MathLibrary.dll
c.dumpbin /clr MathLibrary.dll
d.dumpbin /headview MathLibrary.dll

Q15.

Which of the following are members in the assemblies ?
1. Manifest
2. CIL code
3. Type metadata
4. Media Resources
5. Machine code
a.1, 3 , 4 & 5
b.1 , 2 & 5
c.2, 3 & 4
d.1, 2 & 3