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DN Mod 1 MTT Set 1 - Cloud 10W

https://icompass.fs.capgemini.com/iCompass/images/capgemini.png

**Section:**

* **1**
* **2**
* **3**

**Time Left :** **38 : 27**

**List View**



*Active     Attempted     Not Attempted*

**Q1**

Identify the correct statement about the .NET Framework.

*Single Choice - Select one correct answer from the options list.*

It is OS dependent and hardware independent

It is complex to maintain because of version management

It does not build mobile applications

It is a fully managed, protected, simplified, feature rich application execution environment

**Q2**

Identify the correct statements about .NET Framework?

*Multiple Choice - This may have multiple correct answers. Select required answer(s) from the options list.*

It provides consistent object oriented environment

Common Language Runtime(CLR) is the foundation of .NET Framework.

It provides a code-execution environment that promotes safe execution of code including code   
created by unknown third party

It is an environment for developing, building, deploying and executing only Web Applications

It is an environment for developing, building, deploying and executing only Desktop Applications

**Q3**

Identify the false statements about managed code?

*Multiple Choice - This may have multiple correct answers. Select required answer(s) from the options list.*

It is the code that is compiled by the JIT compilers

It is the code where resources are garbage collected

It is the code that is written to target the services of the CLR

It is the code that is targeted by CLR

**Q4**

Identify True or False statement with respect to Class Loader.  
  
1 : Class Loader manages code execution.  
2 : Class Loader is used by Class Manager to assign memory for objects and data.

*Single Choice - Select one correct answer from the options list.*

Statement 1 is True   
Statement 2 is True

Statement 1 is True   
Statement 2 is False

Statement 1 is False   
Statement 2 is False

Statement 1 is False   
Statement 2 is True

**Q5**

Shirin needs to indicate that a test should not be run.   
Identify the attribute she should specify for TestOne method:  
  
public class SomeTests  
  {  
    [Test]  
 [---------------]  
    public void TestOne()  
    {  
      // Do something...  
    }  
  }

*Single Choice - Select one correct answer from the options list.*

TextFixture

Text

TearDown

Ignore

**Q6**

Fill in the blanks :  
  
In Microsoft Test Framework, \_\_\_\_\_\_\_\_ instructs the unit test engine that this method   
should be called prior to invoking each unit test.

*Single Choice - Select one correct answer from the options list.*

TextFixture

TearDown

TestInitialize

Ignore

**Q7**

Sana has certain  areas of code that need additional testing.  
She also wants to take care of  her Dead code (code that doesn't do anything).  
  
Identify the Developer Tool that she should use.

*Single Choice - Select one correct answer from the options list.*

Ncover

Nunit

Log4Net

Fxcop

**Q8**

Fill in the blanks :  
  
\_\_\_\_\_\_ is an application that analyzes managed code assemblies and reports information about   
the assemblies, such as possible design, localization, performance, and security improvements.

*Single Choice - Select one correct answer from the options list.*

Fxcop

Ncover

Log4Net

StyleCop

**Q9**

Which of the following utility will be used to provide a strong name for an assembly,   
generate the public / private key data?

*Single Choice - Select one correct answer from the options list.*

sn.exe

gacutil.exe

ildasm.exe

snk.exe

**Q10**

Identify the correct way to declare, create and instantiate delegates.

*Single Choice - Select one correct answer from the options list.*

delegate MyDelegate(string str1, string str2);  
static void Main(string[] args)  
{  
MyDelegate myDel = new MyDelegate(String.Concat);  
string message = myDel("Educational", "Institutes");  
}

delegate string MyDelegate(string str1, string str2);  
static void Main(string[] args)  
{  
MyDelegate myDel = new MyDelegate(String.Concat("Educational", "Institutes"));   
}

delegate string MyDelegate(string str1, string str2);  
static void Main(string[] args)  
{  
MyDelegate myDel = new MyDelegate(String.Concat);  
string message = myDel("Educational", "Institutes");  
}

delegate string MyDelegate();  
static void Main(string[] args)  
{  
MyDelegate myDel = new MyDelegate(String.Concat);  
string message = myDel("Educational", "Institutes");  
}

**Q11**

Which of the following statements is/are true with respect to constraints?  
  
1 : To provide stronger compile-time type checking and reduce type casts, C# permits   
an optional list of constraints to be supplied for each type parameter  
  
2 : A type parameter constraint specifies a requirement that a type must fulfill in order   
to be used as an argument for that type parameter

*Single Choice - Select one correct answer from the options list.*

Statement 1 is True  
Statement 2 is True

Statement 1 is True  
Statement 2 is False

Statement 1 is False  
Statement 2 is True

Statement 1 is False  
Statement 2 is False

**Q12**

Which of the following classe do not inherit from SymmerticAlgorithm class?

*Single Choice - Select one correct answer from the options list.*

AesManaged

DESCryptoServiceProvider

AesCryptoServiceProvider

RSACryptoServiceProvider

**Q13**

Identify True or False statement with respect to Collections  
  
1 : Collection is a group of implicitly typed variable.  
2 : ICollection interface must be implemented by all collection classes.

*Single Choice - Select one correct answer from the options list.*

Statement 1 is True   
Statement 2 is True

Statement 1 is True   
Statement 2 is False

Statement 1 is False   
Statement 2 is False

Statement 1 is False   
Statement 2 is True

**Q14**

Predict the output of the following code  
  
class Program  
    {  
        static void Calculate(int num, out int square, out int cube)  
        {  
            square = num \* num;  
            cube = num \* num \* num;  
        }  
        static void Main(string[] args)  
        {  
            int square, cube;  
            Calculate(5, out square, out cube);  
            Console.WriteLine(square + " " + cube);  
            Console.ReadKey();  
        }  
    }

*Single Choice - Select one correct answer from the options list.*

25 125

5 5

Compile Time Error - Use of Unassigned Variables

0 0

**Q15**

Identify the correct statement with respect to Exception:

*Single Choice - Select one correct answer from the options list.*

Exceptions occurs at compile time

Exceptions occurs at run time

Exception occurs when the program is loading in the memory

Exceptions occurs before compilation

**Q16**

Predict the output of the following code.  
  
delegate void MathDelegate(int num1, int num2);  
    class Maths  
    {  
        public void Add(int num1, int num2)  
        {  
            Console.WriteLine(num1 + num2);  
        }  
        public void Subtract(int num1, int num2)  
        {  
            Console.WriteLine(num1 - num2);  
        }  
        public void Multiply(int num1, int num2)  
        {  
            Console.WriteLine(num1 \* num2);  
        }  
    }  
    class Program  
    {  
        static void Main(string[] args)  
        {  
            MathDelegate mathDel;  
            Maths mt = new Maths();  
            mathDel = new MathDelegate(mt.Add);  
            mathDel += new MathDelegate(mt.Multiply);  
            mathDel += new MathDelegate(mt.Add);  
            mathDel += new MathDelegate(mt.Subtract);  
            mathDel(25, 20);  
            mathDel -= new MathDelegate(mt.Multiply);  
            mathDel(60, 45);  
            Console.ReadKey();  
        }  
    }

*Single Choice - Select one correct answer from the options list.*

45  
500  
5  
105  
15

45  
45  
5  
500  
105  
105  
15

45  
500  
45  
5  
105  
105  
15

45  
45  
5  
105  
105  
15

**Q17**

Identify the correct statement for Garbage Collector:

*Multiple Choice - This may have multiple correct answers. Select required answer(s) from the options list.*

Garbage collector destroys objects only when the program shuts down.

Garbage collector destroys objects only once.

Garbage collector always maintains its own data structures in a consistent state.

Garbage collector destroys objects while they are still reachable.

**Q18**

Fill in the blanks :  
  
Parallel programming is used for \_\_\_\_\_\_\_.

*Single Choice - Select one correct answer from the options list.*

responsiveness

performance

referencing

allocation

**Q19**

Predict the output of the following code  
  
static void Main(string[] args)  
        {  
            int[,] matrix = new int[2, 3]{{22, 11, 33}, {55,44,66}};  
            for (int i = 0; i <= matrix.GetLength(0) - 1; i++)  
            {  
                for (int j = 0; j <= matrix.GetLength(1) - 1; j++)  
                {  
                    Console.Write(matrix[i,j] + " ");  
                }  
                Console.WriteLine();  
            }  
            Console.ReadKey();  
        }

*Single Choice - Select one correct answer from the options list.*

22 11  
55 44

22 11 33  
55 44 66

22 55  
11 44  
33 66

22  
11  
33

**Q20**

Identify the output of the following code.  
  
static void Main(string[] args)  
        {  
            Console.WriteLine("Integer : {0}", sizeof(int));  
            Console.WriteLine("Long Integer : {0}", sizeof(long));  
            Console.WriteLine("Unsigned Integer : {0}", sizeof(ulong));  
            Console.WriteLine("Short Integer : {0}", sizeof(short));  
  
            Console.ReadKey();  
        }

*Single Choice - Select one correct answer from the options list.*

Integer : 4 Bytes  
Long Integer : 8 Bytes  
Unsigned Integer : 8 Bytes  
Short Integer : 2 Bytes

Integer : 4  
Long Integer : 8  
Unsigned Integer : 8  
Short Integer : 2

Integer : 4  
Long Integer : 16  
Unsigned Integer : 8  
Short Integer : 2

Integer : 4  
Long Integer : 8  
Unsigned Integer : 8  
Short Integer : 4

**Q21**

Predict the output of the following code.  
  
public class Employee  
{  
        public int EmployeeId { get; private set; }  
        public string EmployeeName { get; set; }  
        public int Salary { get; set; }  
}  
public class EmployeeRecords  
{  
        static void Main(string[] args)  
        {  
            Employee employeeObj = new Employee();  
            employeeObj.EmployeeId = 1001;  
            employeeObj.EmployeeName = "Manoj";  
            employeeObj.Salary = 25000;  
            Console.WriteLine("Printing Employee Details");  
            Console.WriteLine("Employee ID:{0}",employeeObj.EmployeeId);  
            Console.WriteLine("Employee Name:{0}", employeeObj.EmployeeName);  
            Console.WriteLine("Salary:{0}", employeeObj.Salary);  
            Console.ReadKey();  
        }  
}

*Single Choice - Select one correct answer from the options list.*

Employee ID:1001  
Employee Name:Manoj  
Salary:25000

Compile time error

Runtime error (Exception)

Program will execute successfully but there will not be any output.

**Q22**

Predict the output for the below code  
  
using System;  
using System.Console;  
class Program    
{    
     static void Main(string[] args)    
     {    
            Employee emp = new Employee();    
            WriteLine("{0} : {1}", nameof(Employee.Id), emp.Id);    
            WriteLine("{0} : {1}", nameof(Employee.Name), emp.Name);    
            WriteLine("{0} : {1}", nameof(Employee.Salary), emp.Salary);    
            ReadLine();    
     }    
}    
class Employee    
{    
        public int Id { get; set; } = 101;    
        public string Name { get; set; } = "Nitin";    
        public int Salary { get; set; } = 9999;    
}

*Single Choice - Select one correct answer from the options list.*

Id : 101  
Name : Nitin  
Salary : 9999

Employee.Id : 101  
Employee.Name : Nitin  
Employee.Salary : 9999

Id : 0  
Name :   
Salary : 0

Employee.Id : 0  
Employee.Name :  
Employee.Salary : 0

**Q23**

Identify True or False statement with respect to Generics:  
  
1 : Generic types do not provide support for stronger compile-time type checking.  
2 : To create a generic method, type parameter is needed for entire class.

*Single Choice - Select one correct answer from the options list.*

Statement 1 is True   
Statement 2 is True

Statement 1 is True   
Statement 2 is False

Statement 1 is False   
Statement 2 is False

Statement 1 i s False   
Statement 2 is True

**Q24**

Identify the correct statements about delegates.

*Multiple Choice - This may have multiple correct answers. Select required answer(s) from the options list.*

Delegates are used to call callback functions

Delegates cannot point to static methods

Delegate is a value type

Delegate is a type-safe object that points to another method.

**Q25**

Observe the following delegate signature:  
  
public delegate int MathDelegate(int firstNumber,int secondNumber);  
  
Based on the above signature, identify the lambda expression code that performs   
the addition of two numbers.

*Single Choice - Select one correct answer from the options list.*

Program programObj=new Program();  
MathDelegate mathObj=new MathDelegate(programObj.AddNumbers);

MathDelegate mathObj=(firstNumber, secondNumber) => { return firstNumber+secondNumber; };  
int sum = mathObj(1000, 2000);

public int AddNumbers(int firstNumber,int secondNumber)  
{  
return firstNumber+secondNumber;  
}

MathDelegate mathObj=(firstNumber, secondNumber) => { Console.WriteLine("Addition of {0} and {1} is {2}",   
firstNumber, secondNumber, firstNumber + secondNumber); };

**Q26**

Identify the collection whose input/output is indexed based.

*Single Choice - Select one correct answer from the options list.*

Stack

Queue

ArrayList

HashTable

**Q27**

Predict the output of the following code.  
  
class Program  
    {  
        int num = 88;  
        static void Main(string[] args)  
        {  
            Program obj = new Program();  
  
            int num = 25;  
            int num1 = 15;  
  
            Console.WriteLine(num + num1);  
            Console.WriteLine(obj.num + num1);  
  
            Console.ReadKey();  
        }  
    }

*Single Choice - Select one correct answer from the options list.*

40  
40

40  
103

103  
103

Error : Same name variable

**Q28**

Which of the following principle is not followed in the below code?  
  
public interface IOrder  
{      void Purchase();  
        void ProcessCreditCard();  
}  
public class OnlineOrder : IOrder  
{       public void Purchase()  
        {            //Do purchase        }  
   
        public void ProcessCreditCard()  
        {            //process through credit card        }  
}  
public class InpersionOrder : IOrder  
{       public void Purchase()  
        {            //Do purchase        }  
   
        public void ProcessCreditCard()  
        {  //Not required for inperson purchase  
            throw new NotImplementedException();  
        }  
}

*Single Choice - Select one correct answer from the options list.*

Interface Segregation Principle

Liskove Substitution Principle

Dependency Inversion Principle

Open Close Principle

**Q29**

Identify the correct way to call constructor of base class from derived class.

*Single Choice - Select one correct answer from the options list.*

class Employee  
{  
public Employee()  
{ Console.WriteLine("Employee Class Default Constructor"); }  
public Employee(int EID)  
{ Console.WriteLine("Employee Class Parameterized Constructor"); }  
}  
class Manager : Employee  
{  
public Manager()  
{ base(); Console.WriteLine("Manager Class Default Constructor"); }  
public Manager(int EMPID, float da)  
{ base(EMPID); Console.WriteLine("Manager Class Parameterized Constructor"); }  
}

class Employee  
{  
public Employee()  
{ Console.WriteLine("Employee Class Default Constructor"); }  
public Employee(int EID)  
{ Console.WriteLine("Employee Class Parameterized Constructor"); }  
}  
class Manager : Employee  
{  
public Manager()  
{ Employee(); Console.WriteLine("Manager Class Default Constructor"); }  
public Manager(int EMPID, float da)  
{ Employee(EMPID); Console.WriteLine("Manager Class Parameterized Constructor"); }  
}

class Employee  
{  
public Employee()  
{ Console.WriteLine("Employee Class Default Constructor"); }  
public Employee(int EID)  
{ Console.WriteLine("Employee Class Parameterized Constructor"); }  
}  
class Manager : Employee  
{  
public Manager() : base()  
{ Console.WriteLine("Manager Class Default Constructor"); }  
public Manager(int EMPID, float da):base(EMPID)  
{ Console.WriteLine("Manager Class Parameterized Constructor"); }  
}

The base class is called automatically when user created derived class objects.   
No need to do anything extra.

**Q30**

Identify the correct way to obtain details about type.

*Multiple Choice - This may have multiple correct answers. Select required answer(s) from the options list.*

Assembly myassembly = Assembly.LoadFrom("employee.dll");  
Type mytypes[] = myassembly.GetTypes();

Assembly myassembly = LoadFrom("employee.dll");  
Type mytypes[] = myassembly.GetTypes();

Assembly myassembly = Assembly.LoadFrom("employee.dll");  
Type mytype=myassembly.GetType("Company.Employee");

Assembly myassembly = LoadFrom("employee.dll");  
Type mytype = myassembly.GetType("Company.Employee");

**Q31**

\_\_\_\_\_\_\_\_ enables foreach-style iteration over a generic collection.

*Single Choice - Select one correct answer from the options list.*

IEnumerable<T>

IEnumerable

IEnumerator<T>

IEnumerator

**Q32**

Salman has written following code :  
  
                DirectoryInfo info = new DirectoryInfo(@"d:\");  
                DirectoryInfo[] directories = info.GetDirectories("N\*", SearchOption.TopDirectoryOnly);  
                foreach (DirectoryInfo directory in directories)  
                {  
                    //retrieving the files from the current directory  
                    \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
                    foreach (FileInfo fileInfo in files)  
                    {  
                        string extension = Path.GetExtension(fileInfo.FullName);  
                        if (extension.Equals(".cs"))  
                        {  
                            Console.WriteLine("{0}=>{1}", directory.Name, fileInfo.Name);  
                        }  
                    }  
                }  
  
He would like to display name of the file whose extension is .cs.   
Identify the correct code snippet to retrieve files from directory.

*Single Choice - Select one correct answer from the options list.*

FileInfo[] files = directory.GetFile();

FileInfo[] files = directory.GetFiles();

FileInfo[] files = directories.GetFile();

FileInfo[] files = directories.GetFiles();

**Q33**

Identify True or False statement with respect to delegates:  
  
1: In the multicast delegate + operator is used to add methods to invocation list and   
to remove methods - operator is used.  
  
2: In the multicast delegate methods will be invoked in the reverse manner,   
as they are added.

*Single Choice - Select one correct answer from the options list.*

Statement 1 is True   
Statement 2 is True

Statement 1 is True   
Statement 2 is False

Statement 1 is False   
Statement 2 is False

Statement 1 i s False   
Statement 2 is True

**Q34**

Identify correct statements about System.IO.

*Multiple Choice - This may have multiple correct answers. Select required answer(s) from the options list.*

System.IO namespace focuses on the programmatic manipulation of directories and files

System.IO namespace has no support for reading data from raw memory locations as well as   
string buffers.

System.IO defines a number of enumerations as well as set of abstract classes.

System.IO namespace contains types that allow only synchronous reading and writing on   
data streams and files

**Q35**

Neha is developing application using ArrayList :  
  
            ArrayList numberList = new ArrayList();  
            numberList.Add(10);  
            numberList.Add(20);  
            numberList.Add(30);  
            numberList.Add(40);  
            numberList.Add(50);  
  
Neha would like to check that 30 is in arraylist or not.   
Identify the correct code snippets to achieve this.

*Single Choice - Select one correct answer from the options list.*

numberList.Search(30)

numberList.Find(30)

numberList.Contains(30)

numberList.Index(30)

**Q36**

Identify correct statements about ref and out parameters.

*Multiple Choice - This may have multiple correct answers. Select required answer(s) from the options list.*

ref parameter acts as both input and output parameter.

ref parameter cannot pass value back to the caller.

out parameters are output only parameters.

out parameter cannot pass value back to the caller.

**Q37**

Identify the block which will be executed even if there is no exception?

*Single Choice - Select one correct answer from the options list.*

catch

throw

try

finally

**Q38**

Match the following access specifiers with their definition.  
  
1. Private  
2. Protected  
3. Internal  
4. Protected Internal  
  
A. Access is limited to the current assembly or types derived from   
the containing class  
B. Access is limited to the current assembly  
C. Access is limited to containing class or derived class  
D. Access is limited to owner type

*Single Choice - Select one correct answer from the options list.*

1-A, 2-C, 3-B, 4-D

1-D, 2-C, 3-B, 4-A

1-D, 2-B, 3-D, 4-C

1-B, 2-D, 3-A, 4-C

**Q39**

Identify True or False statement with respect to Hash Table  
  
1 : In HashTable, hash code is used as an index with which the data associated with the key   
is stored in the table.  
  
2 : In HashTable key cannot be null but value can be.

*Single Choice - Select one correct answer from the options list.*

Statement 1 is True Statement 2 is True

Statement 1 is True Statement 2 is False

Statement 1 is False Statement 2 is False

Statement 1 is False Statement 2 is True

**Q40**

Identify, that which one is not reference type.

*Single Choice - Select one correct answer from the options list.*

class

struct

delegate

interface

Dot Net Framework

1234

Developer Tools

5678

C Sharp

910111213141516171819202122232425262728293031323334353637383940

34 out of 40 Submit Assessment

