

```
1. int a = 20;  
a++;  
a += --a;  
Console.WriteLine("value of a {0}", a);
```

- a. value 41
- b. value 40
- c. value 39
- d. value 42

ans :41

2. strong name assembly can refer only strong name assembly (T/F)

True.

Read this notes

A strong name consists of the assembly's identity—its simple text name, version number, and culture information (if provided)—plus a public key and a digital signature. It is generated from an assembly file (the file that contains the assembly manifest, which in turn contains the names and hashes of all the files that make up the assembly), using the corresponding private key. Microsoft® Visual Studio® .NET and other development tools provided in the Windows Software Development Kit (SDK) can assign strong names to an assembly. Assemblies with the same strong name are expected to be identical.

You can ensure that a name is globally unique by signing an assembly with a strong name. In particular, strong names satisfy the following requirements:

- Strong names guarantee name uniqueness by relying on unique key pairs. No one can generate the same assembly name that you can, because an assembly generated with one private key has a different name than an assembly generated with another private key.
- Strong names protect the version lineage of an assembly. A strong name can ensure that no one can produce a subsequent version of your assembly. Users can be sure that a version of the assembly they are loading comes from the same publisher that created the version the application was built with.
- Strong names provide a strong integrity check. Passing the .NET Framework security checks guarantees that the contents of the assembly have not been changed since it was built. Note, however, that strong names in and of themselves do not imply a level of trust like that provided, for example, by a digital signature and supporting certificate.

When you reference a strong-named assembly, you expect to get certain benefits, such as versioning and naming protection. If the strong-named assembly then references an assembly with a simple name, which does not have these benefits, you lose the benefits you would derive from using a strong-named assembly and revert to DLL conflicts.

Therefore, strong-named assemblies can only reference other strong-named assemblies

3. Default scope of the class is public (T/F)

False.

4. what is the default access level of the class?

Private

5. which of the following is not used to create the .net domain

- a. ASP.NET
- b. IIS
- c. Internet Explorer
- d. Windows Shell

DataBase/Brijesh: ASP.Net

Mam:Windows Shell

Domain is created for Web Application. For creating domain ASP.Net, IIS and IE is required.

6. Which keyword denotes the reference to an object of current class

- a.this()
- b. inIt
- c.out
- d.none of these

this

7. All .net code have to be CLS complaint (T/F)

Brijesh-True

- 8 In which namespace are all collection class located ?

- a.system.configuration
- b.system.collection.
- c.system.codeDom
- d.system.componentmodel

b

9. What is true about destructors ?

- a. destructor cannot be used with structs
- b. **you cannot pass arguments to destructors**

- c. destructor doesn't have the same name of the class
- d. destructor can be overloaded

Ans : B

10. all elements of an interface

Ans : public

11. Constructor for the class Helloworld

Ans : public Helloworld();

12. multiple interfaces can be inherited (T/F) Ans :T

13. Base class for all arithamatic operation

Ans: System.ArithamaticException

14. The entity with some characteristics and behaviour

Ans: object

15. -----is the execution engine for .net

Ans: CLR

16. which one is true about Visual source safe question..

- a.undo check out rollback
- b.we can access vss directly through vb.net 2005
- c.one more point
- d. all the above

Ans : All the above

17. Relation between parent and child.. (inheritance..)

Note : the question from knowledge check

- a. parent object cannot be assigned to a child object directly without casting (child c! = new parent());
- b. assigning child instance tto parent obj = (parent p = new child)
- c. casting a child obj to child obj and assigning it to parent obj(parent p = (child)childobject;)
- d. casting a parent object to a child object and assignining it to a child object will not throw any errors
(child c = (child)parent object);
- e. all the above

Ans : All the above

18. which operator is used to implement interface

Ans : operator

19 which modifier can be used in which the access is limited to that class and the types of its sub class

Ans : protected

20. static method cannot be virtual (T/F)

True

21. Type of abstraction

- a. **data abstraction**
- b. class abstraction
- c. both option a and option b

Abstraction is 3 types : Data Abstraction, Functional Abstraction and Object Abstraction

22. class Test

```
{  
    string s = "Test";  
    string t = string.copy(s);  
    Console.writeline ( s== t)  
    Console.writeline ((object)s == (object)t); }
```

- a. True True
- b. True False
- c. False False
- d. False True

b - True False

23. Keyword that is used to inform the compiler that a variable is initialized with in a method

- a. this
- b. out
- c. Init only
- d. None of these

Out

24. using system

```
class A  
{  
    Public static int X = B.Y +1;  
}
```

Class B

```
{  
    Public static int Y = A.X+1;  
    Static void Main()  
    {  
        Console.writeline ("x = {0}, y = {1} ",A.X,B.Y);  
    }  
}
```

- a. X =1 Y= 1
- b. X = 2 Y =1
- c. X = 0 Y = 0
- d. Will not execute becose circular ref in static field initialize
- e. X = 1, Y = 2

f. **Ans is X = 1, Y = 2**

25. class Test

```
{  
    Int I;  
    Bool t is false  
    If ( I == 0)  
    {  
        Console.writeline ("true...");  
    }  
    Else  
    {  
        Console.writeline ("false..")  
    }
```

It will give error as I is not initialized.

26. which of the following is true about this operator

Ans: the this member can never be declared it is automatically implied when you create a class

27. which of the following accept input from the user

Ans: console.readline();

28. which one of the following code samples write out "C:\WINNT\System32" to the console.

Ans : "C:\\WINNT\\\\System32"

29.what is the purpose of sealed class

Ans : it prevent inheritance

30.which of the following variable share a single copy of the object

Ans :static

31.a question about oopss

Ans : one option contains polymorphism,encapsulation,inheritance

Another option stared with object

These two are the answer for this question

32.which of the statements is/are false (choose the best option)

- a. private methods are inherited in derived class
- b. interface methods can be declared as virtual
- c. static methods cannot be virtual
- d. the signature of the override method must remain same

B and A if they have given Private methods are inherited in derived class.

33. serive that allow code to work functions and structures that has been exported WIN32.dll

- a.delegate
- b.platform invocation
- c.COM interoperability

Ans :platform invocation

Did Not understand this question

34.A question from Tag Navigator

All options contains info about source window and code window

Ans : All the Above..

35.A try block must contain Finally (T/F)

Ans : False

36.A question from method overloading

Options contains argument,signature,access specifier.

All these options are bulleted in the text book

Ans : All the above

37.one program which contains

S=3;

console.WriteLine (s+85.ToString())

Ans : 385

38.Keyword that is used to inform the compiler that a variable is initialized in a method

Ans : out

	Question wording		Possible outcomes	Outcome(s) chosen	Actual score	
	If I have to alter a string many times, such as multiple concatenations, what class should I use?		1 - 0 String 2 - 1 StringBuilder 3 - 2 Either String or StringBuilder can be used.	2 - 1 StringBuilder	1	
	What is the output of the following code snippet? int i=0; i=2.5*5.05; Console.WriteLine("{0}", i);		1 - 0 7.55 2 - 1 7.00 3 - 2 cannot implicitly convert type 'double' to 4 - 3 7.5	3 - 2 cannot implicitly convert type 'double' to	1	
	It is possible for a derived class to define a member that has the same name as the member in its base class. Which of the following keywords would you use if your intent is to hide the base class member?		1 - 0 virtual 2 - 1 sealed 3 - 2 ref 4 - 3 new	1 - 0 virtual	0	
	Which are the members of interface IListBox in the following code snippet? public interface IControl { void Add(); void Sub(); } public interface IListBox:IControl { void Mul(); void Div(); }		1 - 0 Add,Sub,Mul and Div 2 - 1 Mul and Div 3 - 2 Add and Sub 4 - 3 Add,Mul and Div	3 - 2 Add and Sub	0	
	What does the following statement represent? public object this[int i]		1 - 0 Indexer 2 - 1 Delegate 3 - 2 Method	1 - 0 Indexer	1	
	In C#,find the output of the following when the value of iNumber is 2 switch(iNumber) { case 1: Console.Write ("One"); case 2: Console.Write("Two"); default : Console.Write("Not a Digit"); }		1 - 0 Compile time error 2 - 1 Two Not a Digit 3 - 2 One Two Not a Digit 4 - 3 Two	1 - 0 Compile time error	1	
	What is the difference between Array and ArrayList Classes?		1 - 0 Array is a standard array whereas ArrayList 2 - 1 Array is a fixed array whereas ArrayList is 3 - 2 Array can be	2 - 1 Array is a fixed array whereas ArrayList is	1	

			resized whereas ArrayList can't 4 - 3 Both are same			
	What is the output of the following code snippet? int i = 0; while(i++ <10); Console.WriteLine("i = " + i);		1 - 0 Compile Error 2 - 1 Runtime Error 3 - 2 10 4 - 3 11	3 - 2 10	0	
	Which of the following statement/s is TRUE? i)Thread class is used to create a new thread object. ii)Thread constructor needs a delegate of ThreadStart type.		1 - 0 Only (i) 2 - 1 Only (ii) 3 - 2 Both (i) and (ii)	3 - 2 Both (i) and (ii)	1	
	_____ allows building assemblies at run time		1 - 0 Reflection 2 - 1 Serialization 3 - 2 Marshalling	1 - 0 Reflection	1	
	What will be the output of the following code snippet? int iNum=12; object oVal = iNum; iNum =34; Console.WriteLine(oVal);		1 - 0 12 2 - 1 34 3 - 2 Compiler error 4 - 3 Runtime error	1 - 0 12	1	
	What will the output of following code snippet? public interface Employee { int GetSalary(); void GiveRaise(int amount); } public struct Clerk : Employee { private int salary; public Clerk(int salary) { this.salary = salary; } public int GetSalary() { return salary; } public void GiveRaise(int amount) { salary += amount; } } class Test { static void Main(string[] args) { Clerk c = new Clerk(1000); ((Employee)c).GiveRaise(50); System.Console.WriteLine(c.GetSalary()); } }		1 - 0 Runtime error 2 - 1 Compilation error 3 - 2 1050 4 - 3 1000	2 - 1 Compilation error	0	

Question wording	Possible outcomes	Outcome(s) chosen	Actual score
What is the use of "#define" directive in C#?	1 - 0 For defining named constants 2 - 1 For defining symbols 3 - 2 For defining variables 4 - 3 For defining methods	1 - 0 For defining named constants	0
What are the following types of function in a class called public return_type this[type var] { get {} set { } }	1 - 0 Virtual method 2 - 1 Self referencing method 3 - 2 Indexer 4 - 3 Propertie	3 - 2 Indexer	1
What is the default accessibility modifier for methods inside the interface?	1 - 0 Private 2 - 1 Public 3 - 2 Protected 4 - 3 Friend	2 - 1 Public	1
Which of the following statement/s will result in compilation error? (i) enum Color1: byte {Red = 1, Green = 2, Blue = 3} ; (ii)enum Color2: int {Red = 1, Green = 2, Blue = 3} ;	1 - 0 Only(i) 2 - 1 Only(ii) 3 - 2 Both (i) and(ii) 4 - 3 None of (i) and (ii)	4 - 3 None of (i) and (ii)	1
If a method is marked as protected internal who can access it?	1 - 0 Classes that are both in the same assembly 2 - 1 Only methods that are in the same class as 3 - 2 Internal methods can be only be called usin 4 - 3 Classes within the same assembly, and class	4 - 3 Classes within the same assembly, and class	1
Which parameter is declared without a modifier?	1 - 0 Output Parameters 2 - 1 Value Parameters 3 - 2 Reference Parameters 4 - 3 Params Parameters	4 - 3 Params Parameters	0
What is the difference between a const and read-only variable in C# ?	1 - 0 Both are same 2 - 1 const needs to be initialized at the place 3 - 2 read only needs to be initialized at the pl 4 - 3 const can be changed but readonly cannot be	2 - 1 const needs to be initialized at the place	1
What is the output of the following code snippet? using System; class Array { static void Main() { string[] arr = new string[4]; arr[0] = "str1" ; }	1 - 0 str1 str2 str3 str4 2 - 1 error message is displayed 3 - 2 arr[0]=[1] arr[0]=[1] arr[0]=[1] arr[0]=[1] 4 - 3 arr[0]=str1 arr[1]=str2 arr[2]=str3 arr[3]=	4 - 3 arr[0]=str1 arr[1]=str2 arr[2]=str3 arr[3]=	1

<pre> arr[1] = "str2" ; arr[2] = "str3" ; arr[3] = "str4" ; for (int i=0; i < 4; i++) Console.WriteLine ("arr[{0}] = {1}", i , arr[i]); } } </pre>			
<p>The File class, representing a file on disk, and the Directory class, representing a directory, are found in which namespace?</p>	<p>1 - 0 System.IO 2 - 1 System.Util 3 - 2 System.Management 4 - 3 System.Access</p>	<p>1 - 0 System.IO</p>	<p>1</p>
<p>Where are Value types stored :</p>	<p>1 - 0 In a Stack 2 - 1 In a Heap 3 - 2 In a Queue 4 - 3 In a Hash Table</p>	<p>1 - 0 In a Stack</p>	<p>1</p>
<p>Which of the following channel is fire-wall friendly?</p>	<p>1 - 0 Tcp 2 - 1 Http 3 - 2 Smtip</p>	<p>2 - 1 Http</p>	<p>1</p>
<p>In C#, a technique used to stream(linear sequence) data is known as</p>	<p>1 - 0 Wading 2 - 1 Serialization. 3 - 2 Crunching. 4 - 3 Marshalling.</p>	<p>2 - 1 Serialization.</p>	<p>1</p>
<p>Why is the given code snippet is not correct.</p> <pre> try { ... } catch (Exception) {...} catch (IOException) {...} </pre>	<p>1 - 0 We can't use the type of IOException class 2 - 1 The code generates a compile time error bec 3 - 2 The type of class Exception can't be used a</p>	<p>2 - 1 The code generates a compile time error bec</p>	<p>1</p>
<p>_____ binding is possible through Reflection.</p>	<p>1 - 0 Late 2 - 1 Early 3 - 2 Both Late and Early</p>	<p>1 - 0 Late</p>	<p>1</p>
<p>finally ' block in the Try..Catch statement will execute</p>	<p>1 - 0 when there is an exception in the try..catc 2 - 1 when there is exception in the catch block 3 - 2 when there is no exception 4 - 3 irrespective of whether an exception occurs</p>	<p>4 - 3 irrespective of whether an exception occurs</p>	<p>1</p>
<p>Which of A, B, C, D, E is/are wrong ?</p> <p>A.</p> <pre> static int Main(string []args) { //block of statements return (0); } </pre> <p>B.</p> <pre> static void Main() { //block of statements return; } </pre>	<p>1 - 0 D & E. 2 - 1 D. 3 - 2 A & C. 4 - 3 B.</p>	<p>2 - 1 D.</p>	<p>1</p>

<p>C.</p> <pre>static int Main() { //block of statements return 1; }</pre> <p>D.</p> <pre>static uint Main(string[] str) { //block of statements return 0; }</pre> <p>E.</p> <pre>static public void Main(System.String [] s) { //block of statements }</pre>			
<p>Choose the correct alternative for the given code snippet.</p> <pre>[Serializable] public class MyClass { int iId; string sName; [NonSerialized] int iAge; }</pre>	<p>1 - 0 All data members of the class will be serializable 2 - 2 All data members except iAge of the class will be serialized 3 - 3 Invalid Syntax.</p>	<p>2 - 2 All data members except iAge of the class will be serialized</p>	1
<p>In C#, the technique used to control access to a resource so that only one thread at a time can modify that resource is called</p>	<p>1 - 0 Logging 2 - 1 Transaction Processing 3 - 2 Synchronization 4 - 3 Marshalling</p>	<p>3 - 2 Synchronization</p>	1
<p>Method used to overload the operator must be a _____ method</p>	<p>1 - 0 static 2 - 1 non-static 3 - 2 either static or non static</p>	<p>1 - 0 static</p>	1
<p>What is wrong in the given class definition?</p> <pre>class A { int i; static void test() { this.i = 100; } }</pre>	<p>1 - 0 static keyword should not be given 2 - 1 this keyword should not be included for a static method 3 - 2 There is no public method 4 - 3 There is no private keyword for int variable</p>	<p>2 - 1 this keyword should not be included for a static method</p>	1
<p>In C# multiline comments are implemented by</p>	<p>1 - 0 // Data // 2 - 1 /* Data */ 3 - 2 -- Data --</p>	<p>2 - 1 /* Data */</p>	1
<p>Boxing is</p>	<p>1 - 0 The conversion of value type to reference type 2 - 1 The conversion of reference type to value type 3 - 2 Method of storing on the heap</p>	<p>1 - 0 The conversion of value type to reference type</p>	1

	4 - 3 Method of storing on the stack		
Consider the following statements: i) XCOPY Deployment works only if the .NET framework is installed on every target machine. ii) Windows Installer creates a .msm file for Merge Module type of project.	1 - 0 only i) is true 2 - 1 only ii) is true 3 - 2 both i) and ii) are false 4 - 3 both i) and ii) are true	4 - 3 both i) and ii) are true	1
In windows application the class "Form1" is inherited from	1 - 0 System.Windows.Form 2 - 1 System.Windows.Forms.Form 3 - 2 System.Windows.Forms.Form1 4 - 3 System.Forms.Window.Form	2 - 1 System.Windows.Forms.Form	1
Which of the following statement/s is FALSE? (i) A property denotes a storage location. (ii) A property can have either of get or set accessor.	1 - 0 Only(i) 2 - 1 Only(ii) 3 - 2 Both (i) and (ii)	1 - 0 Only(i)	1
What would be the output of the following program? ArrayList myArrayList = new ArrayList(); Console.WriteLine(myArrayList.Capacity.ToString());	1 - 0 16 2 - 1 0 3 - 2 ArgumentNullException, since the ArrayList	1 - 0 16	1
C# denies support to which of the following?	1 - 0 Multiple Interface 2 - 1 Multiple Inheritance 3 - 2 Multilevel Inheritance 4 - 3 Multi Threading	2 - 1 Multiple Inheritance	1
State which of the following statement is FALSE	1 - 0 Attribute provide additional information ab 2 - 1 Attribute can accept parameters. 3 - 2 Custom attributes cannot be created. 4 - 3 Target for attribute can be specified.	3 - 2 Custom attributes cannot be created.	1
A .NET application will not terminate ,if _____ thread is running.	1 - 0 Background 2 - 1 Foreground 3 - 2 Either background or foreground.	2 - 1 Foreground	1
An Assembly consists of :	1 - 0 manifest 2 - 1 metadata 3 - 2 program code & resources. 4 - 3 All of the choices	4 - 3 All of the choices	1
What is the output of the following code snippet? int var1 = 0; int var2 = 0; int[] arr = new int [] {0,1,2,5,7,8,11}; foreach (int ctr in arr) { if (ctr%2 == 0) var1++; else {	1 - 0 0,2,8 2 - 1 ctr 3 - 2 1,5,7,11 4 - 3 0,1,2,5,7,8,11	3 - 2 1,5,7,11	1

<pre> var2++; Console.WriteLine(ctr); } } </pre>			
Remotable objects are the objects that can be marshaled across the _____.	1 - 0 Application Domains 2 - 1 Context Boundaries 3 - 2 Processes	1 - 0 Application Domains	1
What is the feature of a namespace?	1 - 0 You can save a namespace with the .cp exten 2 - 1 You can refer to an alias only in the names 3 - 2 You can declare two or more aliases for the 4 - 3 You can refer to a namespace only by using	3 - 2 You can declare two or more aliases for the	0
Which of the following implements the functionality of a Windows Service?	1 - 0 A service control program 2 - 1 A service program 3 - 2 A service configuration program	2 - 1 A service program	1
What is the order of constructors called in a inheritance hierarchy?	1 - 0 Starts with Derived class ends at Base clas 2 - 1 Starts with Base class ends at Derived clas 3 - 2 The constructor of base will not be called 4 - 3 Randomly	2 - 1 Starts with Base class ends at Derived clas	1
Multi-casting is	1 - 0 Multicasting is about typecasting for multi 2 - 1 Multicasting is about cascading of typecast 3 - 2 Multicasting is about invoking multiple met 4 - 3 Multicasting is about invoking multiple del	3 - 2 Multicasting is about invoking multiple met	1
Which compiler switch creates an xml file from the xml comments in the files in an assembly?	1 - 0 /text 2 - 1 /doc 3 - 2 /xml 4 - 3 /help	2 - 1 /doc	1
How do you return more than one value in a function?	1 - 0 using return keyword 2 - 1 using multiple return keywords 3 - 2 using out/ ref parameters 4 - 3 not possible	3 - 2 using out/ ref parameters	1
What is the base .NET class from which all classes are derived from?	1 - 0 System.Collections 2 - 1 System.Data 3 - 2 System.ComponentModel 4 - 3 System.Object	4 - 3 System.Object	1
_____ allows building assemblies at run time	1 - 0 Reflection 2 - 1 Serialization 3 - 2 Marshalling	1 - 0 Reflection	1
What are jagged arrays in C# ?	1 - 0 Multiple dimension arrays in which every ro 2 - 1 Multiple dimension arrays	2 - 1 Multiple dimension arrays in which rows are	1

	in which rows are 3 - 2 Multiple dimension arrays in which number o 4 - 3 Multiple dimension arrays which have fixed		
What happens when you include a Throw statement in the catch block?	1 - 0 Compilation Error 2 - 1 Current Exception is re-thrown 3 - 2 Runtime Error 4 - 3 Execution is abandoned	2 - 1 Current Exception is re-thrown	1
How are the methods in C# overloaded?	1 - 0 By having the same method name and specify i 2 - 1 By giving different method names and same n 3 - 2 By giving different method names and same t	1 - 0 By having the same method name and specify i	1
What is the use of fixed statement?	1 - 0 To stop the Garbage Collector to move the o 2 - 1 To dispose the object at the end of the def 3 - 2 To tell the Garbage Collector to move the o 4 - 3 To fix the size of an object	1 - 0 To stop the Garbage Collector to move the o	1
Which modifier will you use to suppress the compiler error in the following code snippet? <pre>abstract class Temporary { public abstract void function(); } class Permanent: Temporary { public void function {} }</pre>	1 - 0 override 2 - 1 protected 3 - 2 abstract 4 - 3 sealed	1 - 0 override	1
Consider the following statements: i) A DOM parser reads the XML document, and creates an in-memory “tree” representation of XML Document ii) A SAX based parser reads the XML document and generates events for each parsing step	1 - 0 only i) is true 2 - 1 only ii) is true 3 - 2 both i) and ii) are false 4 - 3 both i) and ii) are true	4 - 3 both i) and ii) are true	1
What is the output of following C# code ? <pre>using System; class MainClass { static void Main() { new MainClass().Display(3.56); } private void Display(float anArg) { Console.WriteLine("{0} {1}", anArg.GetType(), anArg); } double Display(double anArg) {</pre>	1 - 0 System.Single 3.56 2 - 1 System.Float 3.56 3 - 2 System.Double 3.56 4 - 3 System.Decimal 3.56	4 - 3 System.Decimal 3.56	0

<pre> Console.WriteLine("{0} {1}", anArg.GetType(), anArg); return anArg; } public decimal Display(decimal anArg) { Console.WriteLine("{0} {1}", anArg.GetType(), anArg); return anArg; } } </pre>			
<p>Delegate is</p>	<p>1 - 0 A strongly typed function pointer. 2 - 1 A light weight thread or process that can c 3 - 2 A reference to an object in a different pro 4 - 3 An inter-process message channel.</p>	<p>1 - 0 A strongly typed function pointer.</p>	<p>1</p>
<p>What is the output of the following code snippet?</p> <pre> struct Position { public int x, y; public Position(int x, int y) { this.x = x; this.y = y; } } Position a = new Position(10, 10); Position b = a; a.x = 100; b.x+=25; Console.WriteLine(b.x); </pre>	<p>1 - 0 35 2 - 1 10 3 - 2 100 4 - 3 0</p>	<p>1 - 0 35</p>	<p>1</p>
<p>Threads are:</p>	<p>1 - 0 static methods 2 - 1 objects 3 - 2 instance methods 4 - 3 events</p>	<p>2 - 1 objects</p>	<p>1</p>

1. What are the workflow authoring styles supported by WWF

Choose two most appropriate option

- a) Base class library
- b) Entity Style
- c) Random Style
- d) Data-driven style

Answer: a,d

2. Identify the option which follows the correct order of Action

- 1. Obtain the Data source.
- 2. Execute the query.
- 3. Create the query

Choose most appropriate option

- a) 1,2,3
- b) 3,2,1
- c) 1,3,2
- d) 3,1,2

Answer: c

3. ___ is a process in which a Web application accepts data from a user and processes it

Choose most appropriate option.

- a) Page Init
- b) Page Load
- c) ASP.NET
- d) Page Posting

Answer: d

4. The class that encapsulates the event information should be derived from __

Fill in the blank with an appropriate option

- a) System.EventArgs
- b) System.EventHandler
- c) System.Delegate
- d) System.componentModel.EventDescriptor

Answer: a

5. What are the different components of LINQ?

Choose four appropriate options.

- a) LINQ to Objects
- b) LINQ to XML
- c) LINQ to SQL
- d) LINQ to DataSet
- e) LINQ to Datatable
- f) LINQ to DataRow

Answer: a b c d

6. The specific protocols and serialization formats that are used to support successful communication with the service

Choose most appropriate option

- a) Operation Contract
- b) Service Contract
- c) Fault Contract

- d) Data Contract
- e) All of the above
- f) None of the above

Answer: b

7. Consider the enumeration below enum ThreadPriority { Lowest, BelowNormal, Normal, AboveNormal, Highest }

Choose two appropriate options

- a) Threadpriority becomes important only when multiple threads are simultaneously active
- b) Lowest and Highest are not part of this enumeration
- c) A thread's Priority property determines how much execution time it gets relative to other active threads in the operating system

Answer: a c

8. In Memory mapping, which class signifies a randomly accessed view of a memory-mapped file

Choose most appropriate option

- a) MemoryMappedViewStream
- b) MemoryMappedViewAccesser
- c) CreateViewAccessor
- d) MemoryMappedFileView
- e) None of the above

Answer: b

9. In WPF, which layout control aligns the child controls to the edges of panel

Choose most appropriate option

- a) StackPanel
- b) DockPanel
- c) GridPanel
- d) CanvasPanel
- e) None of the above

Answer: b

10. A ___ expression is an anonymous function that can contain expressions and statements and can also be used to create delegates or expression tree types

Choose the appropriate option

- a) Join
- b) XML
- c) Data
- d) lambda
- e) SQL

Answer: d

11. Which of the below are invalid serialization attributes ?

Choose two most appropriate options.

- a) XMIRootElement
- b) XmlAttribute
- c) XmlElement
- d) XmlElementName

Answer: a d

12. ___ provides a means of reading a forward-only stream of rows from a SQL server database.

Fill in the blank with an appropriate option

- a) SqlDataReader

- b) Dataset
- c) DataTable
- d) DataView

Answer: a

13. During a Jagged Array practice session, Shruthi wrote following code:

```
int[][] myarray= new int[][][3];
myarray [0]=new int[3];
myarray [1]=new int[4];
myarray [2]=new int[5];
```

IDE continued to show an error for this Jagged Array construction According to you which line is causing this error?

Choose most appropriate option

- a) int[][]myarray new int[][][3];
- b) myarray [0]=new int[3];
- c) myarray [1]=new int[4];
- d) myarray [2]=new int[5];

Answer: a

14. Consider the following code and identify the attribute to be added to make the Name a property of Employee type in the data contract

```
[DataContract]
Public class Employee
{
    private string m_Name;
    public string Name { get { return m_Name;} set { m_Name = value; } }
```

Choose most appropriate option

- a) [DataMember]
- b) [DataService]
- c) [DataAttribute]
- d) [DataProperty]

Answer: a

15. Please select the two correct statements for XML document:

Choose two appropriate options

- a) XSD is the XML-based alternative of DTDs having the same purpose of DTDs but more powerful and extensible
- b) DTD is the XML-based alternative of XMLs having the same purpose of XMLs but more powerful and extensible.
- c) DTD is the older standard. It is most probable that XSD will replace DTD for validating XML Documents.
- d) XSD is the older standard. It is most probable that DTD will replace XSD for validating XML Documents.

Answer: a c

16. Rahul is trying to use StringBuilder class in a program, but he is getting error. To use the StringBuilder class which namespace he should include in the program

Choose most appropriate option

- a) System.String
- b) System.Globalization

- c) System.io
- d) System.Builder
- e) None of the above

Answer: e

17. please select the correct task to prevent possible code injections

choose three appropriate options

- a) Client side validation need to be done by Java Script
- b) Don't store sensible data into cookies
- c) Don't use hidden boxes to hold data
- d) Don't depend on client side javascript validation

Answer: b c d

18. Which of the following statement(s) is/are true about the operator overloading?

Choose most appropriate option

- a) Binary operators can be overloaded
- b) The cast operator cannot be overloaded, but you can define new conversion operators
- c) Unary operators can be overloaded.
- d) All of the above

Answer: d

19. The goal of ____ is to decrease the amount of code and maintenance required for data-oriented applications

Choose the appropriate option

- a) LINQ to C#
- b) LINQ to Entities
- c) LINQ to Database
- d) LINQ to XML

Answer: b

20. In the .NET Framework, where is the version information of an assembly stored?

Choose most appropriate option

- a) Manifest
- b) Visual Source Safe
- c) Common type System
- d) Version Control

Answer: a

21. Identify drawbacks of the Design Patterns from the below mentioned options

Choose two appropriate answers

- a) Patterns do not lead to direct code reuse
- b) Patterns are deceptively simple
- c) Teams may not Suffer from pattern overload
- d) Maintainability and reusability

Answer: a b

22. This event is raised by the page object. This event is used to complete all tasks that require initialization

Choose the appropriate option

- a) Prelnit
- b) Preload
- c) Init
- d) Initcomplete

e) LoadComplete

Answer: d

23. A class source-code file that is compiled at run time. These classes can be: HTTP Module, HTTP Handler. Can also be a code-behind file for an ASP.NET page or a stand-alone class file containing application logic- find the extension of these files above

Choose most appropriate option

- a) .config
- b) .cs, .jsl, .vb
- c) .licx, .webinfo
- d) .resources, .resx

Answer: b

24. which of the following does an assembly contain ?

Choose most appropriate option

- a) Manifest type metadata, Resources, MSILcode
- b) Manifest, type metadata
- c) Manifest, type metadata, resources
- d) Manifest

Answer: a

25. Which Method is used to create a MemoryMappedViewAccesser that maps to a view of the memory-mapped file

Choose most appropriate option

- a) MemoryMappedViewAccesser()
- b) MemoryMappedViewStream()
- c) CreateViewAccesser()
- d) CreateMemoryMappedViewAccesser()

Answer: c

26. Which of these namespaces handle the following information Language-Country / Region - Calendars in use Format pattern for dates -Currency

Choose most appropriate option.

- a) System.String
- b) System.Globalization
- c) System.IO
- d) System.Reflection

Answer: b

27. WPF Which control n the WPF application has a property GroupName ?

Choose most appropriate option

- a) CheckBox
- b) RadioButton
- c) ComboBox
- d) All of the above

Answer: b

28. In an interview Akshay was asked to evaluate following code and determine the Output.

class Program

{

```
static Program()
{ int number= 100; int denominator= intParse("0");
int result = number /denominator; Console writeLine(result); }
```

```
}
```

class MyClass { static void Main() { Program program= new Program(); } }

According to you, what should be the output of this code? Choose most appropriate option

- a) System.DivideByZeroException
- b) System.TypeInitializationException
- c) System.InvalidCastException
- d) There won't be any exception, result would get printed.

Answer: b

29. Shruthi is working as a developer. She has to write the code to Create a ConnectionString. Which of the following parameter of ConnectionString she should use to specify the name of the database ?

Choose two appropriate options.

- a) Provider
- b) Initial Catalog
- c) Database
- d) Data Source

Answer: b c

30. Which of the following is/ are Statement(s) related to interface ?

Choose most appropriate option

- a) Interface is a type whose members are all public and abstract by default
- b) Interface itself can inherit other interfaces
- c) To implement an interface, class uses the same syntax that is used for inheritance.
- d) All the above

Answer: d

31. True/False: XML serializes only the public properties and private fields of an object.

Choose most appropriate option

- a) TRUE
- b) FALSE**

Answer: b

32. Refer to the below code and Identify the missing statements.

```
[ServiceContract]  
Public interface IHello  
{  
    void SayHello(string name);  
}
```

Choose most appropriate option.

- a) [OperationContract] attribute needs to be included about the SayHello method.**
- b) [DataMember] attribute needs to be included about the SayHello method.
- c) [ServiceContract] attribute needs to be included about the SayHello method.
- d) None of the above.

Answer: a

33. To execute the below code successfully, which namespace to be included

Using System;

```
class MyClass { static void Main(String[] args) { Parallel.For{21, 31, i =>
{Console.WriteLine(i);}}; } }
choose most appropriate option
```

- a) System.Threading
- b) System.Threading.Tasks**
- c) System.Linq
- d) Using System.Collections.Concurrent

Answer: b

34. Consider the following code and identify the statements which are true?

```
using System;
using System.Linq;
class OrderDemo {Static void Main(){String[] englishletters={"d", "c", "a", "b"};
var sorted = from englishletter in englishletters orderby englishletter select englishletter;
foreach(string value in sorted) { Console.WriteLine(value);}}}
```

Choose two appropriate options.

- a) Englishletters is an unsorted array**
- b) Sorted is an IEnumerable <String>**
- c) The output will be in the descending order
- d) The foreach loop is responsible for sorting the englishletters

Answer: a,b

35. Which of the following substantiates the use of stored procedure?

Choose most appropriate option.

- a) The number of requests between the server and the client is reduced.
- b) The execution plan is stored in the cache after It is executed the first time**
- c) Stored procedures accept parameters.
- d) You can bypass permission checking on stored procedure.

Answer: b

36. _____ is the process of converting the state of an object into a form that can be persisted or transported.

Fill in the blank with an appropriate option.

- a) Delegate
- b) Serialization**
- c) Events
- d) Object Initializer

Answer: b

37. Samriti needs to create a UML Diagram that can depict the user requirements scenarios in which your system or application interacts with people, organizations or external systems.

Which diagram should she be using?

Choose most appropriate option

- a) Use Case Diagram**
- b) Class Diagram
- c) Object Diagram

d) Sequence Diagram

Answer: a

38. Rohit wanted to print the SQL server name of his system. Which code should use in SQL server name?

Choose two most appropriate options.

a) **Select @@servername**

b) **print@@servername**

c) select@@server

d) print@@server

Answer: a,b

39. In WWF, _____ is the interaction between the Host processes and a specific activity in an specific workflow instance.

Choose most appropriate option.

a) Local Communication

b) Compensation

c) **Correlation**

d) Serialization

Answer: c

40. How the rules or conditions expressed in WWF to implement business logic

Choose most appropriate option

a) Conditions can be articulated as declarative, or defined in code

b) Rules consist a condition statement and collections of actions that are not performed based on the result of the condition

c) Rules are expressed as an XML file

d) **a & c**

e) a & b & c

Answer: d

41. Which of the following will legally declare a construct and initialize an array?

Choose most appropriate option.

a) char myArray[] = {'a', 'b', 'c'};

b) char myArray[] = {a ; b; c;};

c) char myArray[] = {'a'; 'b'; 'c'};

d) **char [] myArray= {'a', 'b', 'c'};**

Answer: d

42. Web Server provides a detailed description of the extensions, filters, and script mapping

Choose the appropriate option

a) Internet Server Active Programming Interface (ISAPI)

b) Internet Served Application Programming Integration (ISAPI)

c) Internet Server Application Programming Interoperability (ISAPI)

d) **Internet Server Application Programming Interface (ISAPI)**

Answer: d

43. A jagged array is an array of arrays, and therefore its elements are _____.

Fill in the blank with an appropriate option.

- a) Value types
- b) Reference types**
- c) Both Value types and Reference types

Answer: b

44. Which of the following is true about ADO.NET?

Choose most appropriate option.

- a) ADO.NET is an object oriented set of libraries that allows you to interact with data sources.
- b) ADO.NET classes are found in System.Data.dll.
- c) ADO.NET classes are integrated with XML classes.
- d) ADO.NET contains .NET Framework data provider for connecting to a database.
- e) All of the above.**

Answer: e

45. Identify the statements which are in Camel Case.

Choose the two appropriate options.

- a) Public void Show(string bookName){...}**
- b) totalAmount**
- c) BlueColor
- d) Public event EventHandler ClickEvent

Answer: a,b

46. Which of the following are facts about Non-persistence memory mapped files?

Choose most appropriate option

- a) These files are memory-mapped files that are associated with a source file on a disk.
- b) When the last process has finished working with the file, the data is saved to the source file on the disk.
- c) These memory-mapped files are suitable for working with extremely large source files.
- d) These files are suitable for creating shared memory for inter-process communications**

Answer: d

47. LINQ relied on the concepts of extension of extension methods, anonymous types, anonymous methods and _____.

Fill in the blank with an appropriate option.

- a) Lambda expressions**
- b) Xml expressions
- c) Data expressions
- d) Sql expressions

Answer: a

48. What are the services will be provided by Windows Workflow – Foundation?

Choose two most appropriate option

- a) Transaction Services**

- b) Migration Services
- c) **Scheduling Services**
- d) Security services

Answer: a,c

49. Are the following statements true or false?

Statement 1: A Task is a schedulable unit of work. Statement 2: Task enqueued to a TaskScheduler.

- a) **Both statements are true.**
- b) Both statements are false.
- c) Statement 1 is false and statement 2 is true.
- d) Statement 2 is false and statement 1 is true.

Answer: a

50. Which of the following apply to constructor?

Choose three appropriate options.

- a) Constructors are methods that set the initial state of an object
- b) Constructors cannot return a value, not even void
- c) Constructors can be inherited
- d) If the class does not explicitly declare a constructor, it will default to a no parameter, do nothing constructor

Answer: a, b, d

51. What will be the output of the below program using System;
using System.IO;

```
class Program
{
    static void Main(string[] args)
    {
        StreamWriter sw = File.CreateText("C:\\accenture.txt");
        try { sw.WriteLine("Welcome to Accenture");}
        catch(IOException e){ Console.WriteLine(e.Message);}
        finally{ if(sw != null) sw.Close();}
    }
}
```

Choose most appropriate option

- a) **Accenture.txt file is created in C: drive**
- b) IOException will be thrown
- c) Unhandled Exception
- d) Completetime Error

Answer: a

52. Shruthi is working on the code below. When she executes this code she is facing this error – using directive error.

Which of the option will resolve this error?

```
int[] numbers = new int[7] {0,1,2,3,4,5,6};
var numQuery = from num in numbers where (num % 2) == 0 select num;
foreach (int num in numQuery) {Console.WriteLine("{0}", num);}
```

Choose most appropriate option

- a) **She must use the System.Linq namespace**

- b) She must use the System.Linq.Expressions namespace
- c) She must revise her Linq query
- d) None of the above

Answer: a

53. With respect to generic concept, developers can create which generic item?

Choose three appropriate options.

- a) Generic constant
- b) Generic class**
- c) Generic event**
- d) Generic delegate**

Answer: b,c,d

54. Radha wants to sort data stored in an array. She doesn't want to work on the sorting functionality. Do we have any provision in the .NET framework FCL to help her in sorting?

Choose most appropriate option

- a) Yes, she can use System.Sort(array)
- b) Yes, she can use System.Data.Sort(array)
- c) Yes, she can use System.Array.Sort(array)**
- d) No, she need to write the sort functionality

Answer: c

55. Error handling in WCF service is handled by _____.

Choose most appropriate option.

- a) Fault Contract**
- b) ServiceContract
- c) DataContract
- d) MessageContract

Answer: a

56. Which of the options is valid with respect to below statements

Statement1: StringBuilder saves time and memory by not creating a new string each time an operation is performed on a string.

Statement2: System.Math class provides constants and static methods for trigonometric, logarithmic, and assertion functions.

Choose most appropriate option.

- a) Statement1 is True. Statement2 is false**
- b) Statement1 is False. Statement2 is True
- c) Statement1 is False. Statement2 is False
- d) Statement1 is True. Statement2 is True

Answer: a

57. Identify correct syntax for declaring indexer.

Choose most appropriate option.

- a) public int this[int index] { get{ } set{ } }**
- b) public int [int index]this { get{ } set{ } }

- c) public this[int index] { get{ } set{ } }
- d) public this[int index] int { get{ } set{ } }

Answer: a

58. A/ An _____ that does not have a WHERE clause produces the Cartesian product of the tables involved in the join.

Choose the appropriate option

- a) Equi Join
- b) Inner Join
- c) Self Join
- d) Cross Join**

Answer: d

59. Arun wants to retrieve result using a query “select count(*) from employee”. Which is most appropriate SqlCommand method for his requirement

Choose most appropriate option

- a) Execute Reader
- b) ExecuteQuery
- c) ExecuteNonQuery
- d) ExecuteScalar**

Answer: d

60. CREATE VIEW [dbo].[viewmyTable] AS SELECT D.DeptName, D.Location, E.Name FROM Department D LEFT OUTER JOIN Employee E ON D.DeptID = E.DeptID GO

Predict the output, when the above query executed?

Choose most appropriate option

- a) Commands execute successfully**
- b) Incomplete query
- c) Syntax error

Answer: a

61. Which of the following are True for Workspace

Choose two appropriate options

- a) Workspace is a folder created within the local system which maps a project in the source control.**
- b) Files within the source control which needs changes, should be first loaded into the workspace of the local system. Any changes made to the files are stored in the local workspace.**
- c) Only one workspace can be maintained for a single project in the source control.
- d) Files need to be checked-out in order to upload changes into source control.

Answer: a,b

62. Visibility qualifier is used for which off the following?

Choose most appropriate option.

- a) Specifying different visibility for the get and set accessors of a property or an indexer.**
- b) Setting the visibility off the accessor get and set to public even though the property visibility is set to protected.

- c) Setting the visibility of the accessor and set to public even though the property visibility is set to internal.
- d) All off the above.

Answer:a

63.Select the two correct two statements for xml schema(XSD)

Choose most appropriate option.

- a) **The <schema>elements is the root element for XSD.**
- b) Has data types and namespaces,like DTDs.
- c) Elements in schemas are divided into three types: Simple Elements Mixed Elements Complex Elements.
- d) XSD is written similarly to xml as xsd makes use of xml syntax, hence most of the rules to xml apply to xsd.**

Answer:a,d

64. State true or false for the statements for design patterns.

Statement 1: Prototype-A fully initialized instance to be copied or cloned.

Statement 2: Singleton-A class of which only a multiple instances can exist.

Choose most appropriate option.

- a) All the statements are true.
- b) All the statements are false.
- c) Statement1 is true and statement2 is false.**
- d) Statement2 is true and statement1 is false.

Answer: c

65.What is the .NET Collection class that allows an element to be accessed using a unique key?

Choose most appropriate option.

- a) ArrayList
- b) StringCollection
- c) Stack
- d) Hashtable**

Answer: d

66. Rajesh needs to copy only specific range of elements from MyArray to copyMyArray. He is using Follwing code.

```
Int[] myarray= new int[3] {20,19,21};
```

```
Int[] copyarray= new int[3];
```

```
Array.Copy(myarray,copyarray,1);
```

Would this code give him desirable Output?

Choose most appropriate option.

a)Yes

b)No

Answer:a

67. Consider the following statements and identify the WCF program 1,These are programs that consume the services 2.They are normally the ones the initiate the messaging to the service.

Choose most appropriate option.

- a) Message
- b) Client**

- c) Intermediates
- d) None of the option

Answer:b

68.Which of the below syntax is correct to define operator method or to perform operator overloading?

Choose most appropriate option.

- a) Public static op(arglist) {}
- b) Public static returnvalue op(arglist){}
- c) Public static returnvalue operator op(arglist){}**
- d) All of the above

Answer:c

69. Identify two conditions from the following that need to be met for multicast delegates.

Choose most appropriate option.

- a)None off the parameters of the delegate is an output parameter.**
- b)The return type of the delegate is void.**

- c)The parameter o the delegate is an output parameter

Answer:a,b

70. What is / are the different component(s) off LINQ?

Choose most appropriate option.

- a) LINQ to Objects
- b) LINQ to XML
- c) LINQ to SQL
- d) LINQ to Entity
- e) All of the above**

Answer: e

71.Identify the description of @@IDENTITY.

Choose most appropriate option.

- a) Returns the error number for the last Transact-SQL statement executed.
- b) Returns the last -inserted identity value.**
- c)Returns the number of rows affected by the last Statement.

Answer:b

72.Identify the list off Common Exception Classes

Choose most appropriate option.

- a) System.StackException
- b) System.NullReferenceException**
- c) System.ArrayTypeMismatchException**
- d) System.TypeMisMatchException
- e) System.InvalidCastException**

Answer:b,c,e

73. Read the statement below and identify the workflow component This is the act of undoing any actions that were performed by a successfully completed activity because of an exception that occurred elsewhere in a workflow

Choose most appropriate option.

- a) Activity
- b) Compensation**
- c) Service

d) Workflow persistence

Answer:b

74. John is developing an application for ABC company in which he wants to combine application UIs, 2D graphics, 3D graphics, documents and multimedia in one single framework. Which component can he use?

Choose most appropriate option.

a) WPF

b) WCF

c) Linq

d) OOPS

Answer: a

75. What is/are the advantages of LINQ over stored procedures?

Choose most appropriate option.

a) Debugging- it is really very hard to debug the stored procedure but as LINQ is part of .NET, you can use visual studio's debugger to debug the queries.

b) Deployment- With stored procedures, we need to provide an additional script for stored procedures but with LINQ everything gets compiled into single DLL hence deployment becomes easy.

c) Type Safety- LINQ is type safe, so query errors are type checked at compile time. It is really good to encounter an error when compiling rather than runtime exception

d) All of the above

Answer: d

76. Which of the below are valid statements about DataReader and Data set

Choose most appropriate option.

a) DataReader reads all the records at a time and it is used in multiple databases.

b) DataSet always reads one record at a time and it moves in a forward direction.

c) DataReader is a connected Architecture

d) Dataset is a collection of in memory tables

Answer: c,d

77. Identify the functions of common type system(CTS)

Choose most appropriate option.

a) They form the fundamental unit of deployment, version control, reuse, activation scoping, and security permissions

b) Most of the members defined by types in the .NET framework class library are CLS-compliant

c) Establishes a framework that helps enable cross-Language integration, type safety, and high performance code execution

d) Provides an object-oriented model that supports the complete of many programming languages

Answer: c,d

78. Identify the tasks a user is able to perform in Source Control Explorer

Choose most appropriate option.

a) Create/Rename/Delete files and folders

b) Check in/out files

c) Get latest/Specific version

d) All of the above

Answer:d

79. _____ Represents the standard input, output, and error streams for console applications. This class cannot be inherited.

Fill the blank with appropriate option.

a) **Console class**

b) TextWriter class

c) Text class

Answer:a

80.What is the namespace for “Task” class?

Choose most appropriate option.

a) System.Tasks

b) System.Threading.Tasks

C) System.Diagnostics.Tasks

d) System.Dynamic.Task

Answer:b

81.State true or false for the below statements.

Statement1 : Multicast delegates are used extensively in event handling.

Statement2 : Delegation can be used to define callback methods

Choose most appropriate option.

a) **Statement1 and Statement2 are true**

b) Statement2 is true and Statement2 is false

c) Statement1 is true and Statement2 is false

d) Statement2 and Statement1 are False

Answer:a

82. _____ namespace provides classes for using a memory mapped file, which maps the contents of a file to an application's logical address space.

Fill with the most appropriate option.

a) System.MemoryMappedFile

b) System.MemoryMappedFiles

c) System.IO.MemoryMappedFiles

d) System.IO.Memory

Answer:c

83.Identify the WCF contract considering the following statement

1. WCF contracts define implicit contracts for built-in data types like string and int.

2. This contract defines which data types are passed to and from the service

Choose most appropriate option.

a) Service Contract

b) Fault contact

C) Data Contract

d) Message contact

Answer:c

84. Which of the below statements are correct about Indexers

Choose most appropriate option.

a) Indexers are location indicators

b) Indexers are used to access class objects

c) Indexer is a form of property and works in the same way as a property

d) a&b

e) b&c

f) a,b&c

Answer:f

85. _____ and _____ methods of a delegate helps to process delegate asynchronously

Fill the blank with appropriate option.

a) **BeginInvoke(),EndInvoke()**

b) InvokeBegin(),InvokeEnd()

c) Begin(),End9)

d) BeginInvokeDelegate(),EndInvokeDelegate()

Answer:a

86.Which option gets the version of the selected file/folder specific to date, changeset, label,or workspace version?

Choose most appropriate option.

a)GetSpecificFile

b)GetLatestVersion

c)GetSelectVersion

d)GetSpecificVersion

Answer:d

87.All query operations of LINQ consist of three district actions

Choose most appropriate option.

a) 1. Obtain the data source 2. Declare the Data source 3.Excute the data source

b) 1. Declare the data source 2.Initialize the query 3. Execute the query

c) 1. Declare the Data source 2. Create the data source 3 .Execute the Data source

d) 1. Obtain the data source 2.Create the query 3. Execute the query

Answer:d

88.Rajesh is implementing an ASP.NET page. The page include a method named GetProjectAllocation that returns dataset. The Dataset includes a datatable named ProjectAllocation. Rajesh need to show the data in GridView control named GridView1
Choose most appropriate option.

a)Gridview1.DataTable=GetProjectAllocation();

b)GridView1.DataTable=GetProjectAllocation();GridView1.DataBind();

c) GridView1.DataSource=GetProjectAllocation();GridView1.DataBind();

d) GridView1.DataSourceId=GetProjectAllocation();GridView1.DataBind();

Answer:c

89._____ is a pre defined, reusable routine that is stored in adatabase

Fill the blank with most appropriate option.

a) Function

b) Stored Proccedure

c) View

d) Joins

Answer:b

90.Which of the following are True for Workspace

Choose two appropriate options

a) Workspace is a folder created within the local system which maps a project in the source controls.

- b) Files within the source control which needs changes, should be first loaded into the workspace of the local system. Any changes made to the files are stored in the local workspace.
- c) Only one workspace can be maintained for a single project in the source control.
- d) Files need to be checked-out in order to upload changes into source control.

Answer: a,b

91. In LINQ , all the core types are defined in _____

Choose most appropriate option.

- a) System.Linq.XML and System.Linq.Expressions
- b) System.Linq and System.Linq.XML
- c) System.Linq and System.Linq.Expressions**
- d) System.XML.Linq and System.Linq.Expressions

Answer : C

92. The _____ hosting option is integrated with ASP.NET and uses the features these technologies offer, such as process recycling , idle shutdown ,process health monitoring , and message based activation.

Choose most appropriate option

- a) IIS**
- b) Windows Services
- c) WAS
- d) Self Hosting
- e) All of the above
- f) None of the above

Answer : A

93. What are true about Static Constructors

Choose two appropriate options

- a) Static variable get instantiated after the static constructor
- b) Static constructors provide the flexibility of statically initializing static variables
- c) Static constructors have access to static members of theirs class only
- d) A static constructors does not have parameters and access modifiers cannot be applied to it

Answer : C, D

94. Which of the below statement(s) are valid in Operator Overloading?

Choose most appropriate option

- a) The conditional logical operators cannot be overloaded
- b) The array indexing operator can be overloaded
- c) The comparison operators cannot be overloaded
- d) All of the above
- e) None of the above

Answer : A

95. You want to make a configuration setting change that will affect only the current web application. Which file will you change?

Choose most appropriate option

- a) Web.config

- b) Machine.config
- c) Global.asax

Answer : A

96. Testing which attribute should be used to run code before the first test is run in the class?

Choose most appropriate option

- a) TestInitialize()
- b) TestClass()
- c) ClassInitialize()
- d) TestStart()

Answer : C

97. VSTS is also used for automated unit testing of components and regression testing.

State TRUE or FALSE

- a) FALSE
- b) TRUE

Answer : TRUE

98. Which access modifier cannot be used with data members of a structure?

Choose most appropriate option

- a) Public
- b) Protected
- c) Internal
- d) Private

Answer : B

99. Anand has created a master page named Plant.master. the master page uses the following page directives.

```
<%@ Master Language="c#" Src("~/Plant.master.cs" inherits="Plant" %>
```

He needs to create a content page that uses the master page as a template. In addition , he needs to use a single master page for all devices that access the web site. Which code segment should be use ?

Choose most appropriate option

- a) <%@ Page Language="c#" Theme="Plant" Skin="Plant.cs"%>
- b) <%@ Page Language="c#" MasterPageFile="~/Plant.master" %>
- c) <%@ Page Language="c#" device:MasterPageFile="~/Plant.master" %>
- d) <%@ Page Language="c#" de:MasterPageFile="~/Plant.master" %>

Answer : B

100. CREATE VIEW [dbo].[viewmyTable] AS SELECT D.DeptName , D.Location , E.Name FROM Department D JOIN Employee E ON D.DeptID = E.DeptID GO Predict the output , when the above view is executed ?

Choose most appropriate option

- a) A view will be created by selecting deptname , location from the department table and employees name from the employee table .
- b) Syntax error

- c) Incomplete query
- d) A view will be created by selecting deptname , location and name from the department table.

Answer : A

101. Are the methods below a valid overload

```
Public int Sum(ref int a , ref int b)  
Public int Sum(out int a , out int b)
```

Choose most appropriate option

- a) Yes
- b) No

Answer : No

102. State true or false for the below statements.

Statements1. Extension Methods: Which gives us the capabilities to asses our own custom methods to data types without deriving from the base class.

Statement2. Object Initializer: allows you to pass in named values for each of the public properties that will be used to initialize the object.

Choose most appropriate option

- a) Statement 1 and statement 2 are true.
- b) Statement 1 and statement 2 are false.
- c) Statement 1 is false and statement 2 is true.
- d) Statement 2 is false and statement 1 is true.

Answer : A

103. True/False : Fault Handling is a method of the workflow runtime engine that synchronously handles the exceptions that occur in the activities

Choose most appropriate option

- a) TRUE
- b) FALSE

Answer : FALSE

104. Which of the following are true about Delegates?

Choose three appropriate options

- a) A delegate can reference a method only if the signature of the method exactly matches the signature specified by the delegate type
- b) A delegate allows the programmer to encapsulate a reference to a method inside a delegate object
- c) Delegates are similar to function pointers
- d) Generally useful way for objects to signal state changes that may be useful to clients of that object.

Answer : A ,B ,C

105. Amulya has created following class:

```
Public class Employee { public int EmployeeCode{ get; set;} public string EmployeeName{get; set;} public int EmployeeAge{get; set;}}
```

Please select correct code for initializing an object by using Object initializers.

Choose most appropriate option

- a) Employee emp = new Employee(EmployeeCode=111;
EmployeeName="Raghav" ;EmployeeAge=26);
- b) Employee emp = new Employee{EmployeeCode=111,
EmployeeName="Raghav",EmployeeAge=26};
- c) Employee emp = new Employee(){EmployeeCode=111;
EmployeeName="Raghav";EmployeeAge=26};
- d) Employee emp = new Employee(){EmployeeCode=111,
EmployeeName="Raghav",EmployeeAge=26};

Answers : B

106. Identify which statements are false about windows Presentation foundation(WPF)

Choose two appropriate options

- a) Used for standalone and browser hosted applications
- b) Uses XAML markup to implement the appearance of an application
- c) The service-oriented design results in distributed systems that runs between services and clients
- d) Provides a programming model for building workflow-based applications in windows

Answer: C , D

107. How do you specify a constraints for the type to be used in a generic class

Choose most appropriate option

- a) Class Program where T: MyInterface
- b) Class Program : MyInterface
- c) Class Program constraint T : MyInterface
- d) Class Program where T : MyInterface

Answer: A

108. VIEW [dbo].[viewmyTable] AS SELECT D.Deptname,D.location ,E.Name FROM

```
Department D FULL OUTER JOIN Employee E ON D.DeptID = E.DeptID
```

Whats the output , when the above query is executed?

Choose most appropriate option

- a) Display all the employees with their Departments .Output contains
- b) The employee names and all the department names present in the database
- c) Syntax error
- d) Incomplete Query

Answer : A

109. Which is the top .NET class from which everything is derived?

Choose most appropriate option

- a) System.Collections
- b) System.Globalization
- c) System.Object
- d) System.IO

Answer : C

110. From the following option choose the features of WPF

Choose three appropriate options

- a) Rich Composition
- b) Separation of appearance and behavior
- c) Resolution dependence
- d) Highly customizable

Answer : A , B ,D

111. WCF host can be IIS or WebService or Console Application

Choose most appropriate option

- a) TRUE
- b) FALSE

Answer : TRUE

112. Sam is developing an application in which he wants to use child controls are positioned by rows and columns . which layout he can use ?

Choose most appropriate option

- a) Grid
- b) Canvas
- c) Dock panel
- d) Stack panel

Answer : A

113. Identify the code snippet for creating custom exception class

Choose most appropriate option

- a) Class CustomException: ApplicationException{}
- b) Class CustomException : AppException{}
- c) Class ApplicationException : CustomException{}
- d) None of the above

Answer : A

114. Which of the following is true about overloading?

Choose most appropriate option

- a) Overloaded methods must change the argument list.
- b) Overloaded methods can change the return type.
- c) Overloaded methods can change the access modifier.
- d) All of the above.

Answer : D

1) DOT Net collection class allows element to be accessed using a unique key.

Ans:-Hash Table

2) Major use of go keyword.

3) Which of the following represents not equals,

Ans:-<>

4) Significant advantages of rules over check.

5) State true/false: for loops are available for writing SQL server batches.

-False

Foreach is used

6) Which of the foll. is not a JIT compiler

Ans:-Extensive JIT

7) Which of the foll. is used to read & write encoded strings & primitive data types from and to streams

Ans:-Binary Reader & Binary Writer

8) What are delegate inferences used for? (Select the best option)

- a. Used to declare a delegate object
- b. Used to wrap a method to a delegate object
- c. **Used to make a direct assignment of a method name to a delegate variable without wrapping it first with a delegate object**
- d. A and C
- e. All of the above

9) All elements of an interface should be _____ by default.

Ans:-Public

10) State true or false: User defined fns. can return a table.

Ans:-True

For Eg: DataSets are returned.

11)At one time by using ALTER TABLE how many columns are affected

Ans:-1

12)Multiple Methods address can be concatenated to delegate using operator:

Ans:- +

13)Purpose of Assert Methods of N Unit:-

Ans:- To determine correctness of expected results.

14)Class that encapsulates event infmn. should be derived from

Ans:-System .Event.Args

15)In ADO.net to manage data in disconnected mode

Ans:-SQL Data Adapter

16)Which SQL data types should be used to hold unicode char?

Ans:- I think it is NCHAR-not sure

17)2 fundamental objects in ADO.Net?

**ANS:SQLConnection
SQLCommand**

18)Preprocessor directive is used to mark the contained block of code is to be treated as single block & and can be expanded & collapsed

Ans:-# region and #end region

19)Use case Diagrams represents:

Ans:-All of the Above

20) ----- are useful when callback fns. are required.

Ans: Delegates

21)VS.NET defines listbar control in -----namespace.

Ans: vbAccelerator.Control.ListBar

22) Question related to NUnit

Ans:- Unit Testing & Regression Testing

23) Questions related to Stored Procedure.

Ans:- Command Type Property

24) Logical group of similar classes related based on functionality is called as _____

Ans:- Namespace

25) Which database recovery model has greatest possibility of data loss & is suited mostly for database that change in frequently.

Ans:- Full Recovery

26) Operator to perform wildcard searches for valid search string value.

Ans:- Like

Knowledge Check 1 - Solution

1. What is the function of CLR? (Select the best option)
 - a. **Compilation of MSIL code into native executable code**
 - b. Playing a central role in making C# robust
 - c. Defining the .NET platform
 - d. None of the above

:

a. *Correct. CLR is a runtime environment in which programs written in C# and other .Net languages are executed. It is the job of the CLR to compile the MSIL code to native executable code.*

 2. Which of the following are key benefits of C#? (Select the best option)
 - a. It is object-oriented
 - b. It is type-safe
 - c. It is multi-threaded
 - d. It is secure
 - e. **All of the above**

e. *Correct. This is the best answer because they all are key benefits of C#.*

 3. Which of the following is a C# comment indicator? (Select the best option)
 - a. /*
 - b. \\
 - c. /* */
 - d. All of the above:

c. *Correct. There are two types of C# comments, namely: single line-doc comments and delimited-doc (multi-line) comments. This is the indicator for a multi-line comment.*

 4. Which of the following statements are true? (Select the best option)
 - a. It is possible to perform check-in and check-out operations directly through Visual Studio 2005
 - b. We can get the current version of our source code file from Visual SourceSafe
 - c. Use Undo Checkout option to rollback your changes
 - d. **All of the above**
 - e. None of the above

d. *Correct. All true statements, so this option is the best choice.*

 5. What is a *using* directive used for? (Select the best option)

- a. Creating an object
- b. Organizing a collection of classes
- c. Referencing namespaces**
- d. All of the above

c. Correct. Using directive imports the names of other namespaces, allowing them to be referenced directly instead of through qualified names.

```

1 class Test
2 {
3     void MethodOne( )
4     {
5         int x = 10;
6         MethodTwo (x);
7         System.Console.WriteLine("MethodOne "+ x);
8         x = 20;
9         System.Console.WriteLine("MethodOne "+ x);
10    }
11 void MethodTwo (int x)
12 {
13     System.Console.WriteLine("MethodTwo "+ x);
14     x = 50;
15     System.Console.WriteLine("MethodTwo "+ x);
16 }
17 public static void Main(string[] args)
18 {
19     Test b = new Test();
20     b.MethodOne();
21 }
22 }
```

6 Which of the following output is correct when the C# program in the graphic is executed? (Select the best option)

- a. At line 7 – MethodOne 10
- b. At line 9 – MethodOne 20
- c. At line 13 – MethodTwo 10
- d. At line 15 – MethodTwo 50
- e. All of the above**

e. Correct. All display the correct output.

Explanation for faculty:

C has the correct output because when MethodOne() is called in the main method, it initializes the value of x to 10. MethodOne() then calls MethodTwo (), passing the value of x which is 10, hence at line 13, it prints “MethodTwo 10”.

D has the correct output because inside MethodTwo () (having a copy of x), x is reinitialized to 50, hence printing at line 15, “MethodTwo 50”.

A and B have the correct output because after the final statement in MethodTwo () is executed, it goes back to the calling method, which is MethodOne(), printing at line 7, “MethodOne 10” and at line 9, “MethodOne 20” following the concept of passing by value.

```
1 public class Test
2 {
3     static void MethodOne(Holder holds)
4     {
5         System.Console.WriteLine("MethodOne "+ holds.X);
6         MethodTwo(holds);
7         System.Console.WriteLine("MethodOne "+ holds.X);
8     }
9     static void MethodTwo(Holder holds)
10    {
11        System.Console.WriteLine("MethodTwo "+ holds.X);
12        holds.X = 50;
13        System.Console.WriteLine("MethodTwo "+ holds.X);
14    }
15
16    public static void Main (string[] args)
17    {
18        Holder holds = new Holder();
19        MethodOne(holds);
20    }
21 }
22    public class Holder
23    {
24        private int x = 10;
25        public int X
26        {
27            get
28            {
29                return x;
30            }
31            set
32            {
33                x = value;
34            }
35        }
36    }
```

7 Which of the following output is correct when the C# program in the graphic is executed? (Select the best option)

- a. At line 5 – MethodOne 5

- b. At line 7 – MethodOne 10
 - c. At line 11 – MethodTwo 50
 - d. **At line 13 – MethodTwo 50**
 - e. All of the above
- d. *Correct. The output is correct; it should be MethodTwo 50.*

. **Explanation for Faculty**

D is the best answer because the output is incorrect - at line 13, MethodTwo should be 50.

A contains incorrect output because when MethodOne() is called in the main method, passing an instance of Holder class, **at line 5** it prints “MethodOne 10”.

C contains the incorrect output because MethodOne() calls MethodTwo (), passing the same reference variable. So, **at line 11** it prints “MethodTwo 10”.

D contains the correct output because by changing the value of x using the set accessor to 50, **at line 13** it prints “MethodTwo 50” and **at line 7**, “MethodOne 50”.

- 8 Which of the following is true about handling exceptions? (Select the best option)
- a. The procedure for handling exceptions involves the try..., catch() ..., and finally statements.
 - b. If there are several different exceptions that might be thrown, it is possible to have multiple catch() statements to handle them.
 - c. In C# it is not possible to throw exceptions programmatically using the “throws” keyword.
 - d. If an exception is handled in a catch block, then the finally block will be executed.
 - e. **All of the above**
- e. *Correct. All are true about handling exceptions.*

- 9 Which of the following are valid declarations of a string? (Select the best option)
- a. **string s1 = “strings rule”;**
 - b. string s2 = (string) ‘strings rule’;
 - c. string s3 = ‘strings rule’;
 - d. All of the above
 - e. None of the above

a. *Correct. This newly created string is allocated in the so-called string pool, a portion of the memory allocated by the CLR. Another way to declare a string is instantiating it through the string constructor.*

Explanation for Faculty:

A is correct. This newly created string is allocated in the so-called string pool, a portion of the memory allocated by the CLR. Another way to declare a string is instantiating it through the string constructor.

B is incorrect. A character literal cannot be cast to a string object.

C is incorrect. Only one character can be placed inside single quotation marks.

10 Which of the following will legally declare a construct and initialize an array? (Select the best option)

- a. char myList[] = ['a', 'b', 'c'];
- b. char myList[] = {a ; b; c; };
- c. **char [] myList = {'a', 'b', 'c'};**
- d. char myList [] = {'a'; 'b'; 'c'};

C Correct. Note that the square bracket to declare an array may be placed before or after the reference variable declaration. In C#, it is compulsory to place it before the reference variable name and after the data type.

Explanation for Faculty:

A is incorrect because it uses square brackets instead of curly braces.

B and D are incorrect because elements (a, b and c) inside the curly braces are separated by a semicolon instead of commas.

C is correct. Note that in C#, it is compulsory to place square brackets before the reference variable name and after the data type.

11 Which of the following statements is true? (Select the best option)

- a. The call stack is the chain of methods that your program executes to get to the current method.
- b. It is possible to recover from some types of errors.
- c. At least one catch() block or finally block must appear in the try statement.
- d. A try ...catch block in C# sharp can have multiple catch blocks.
- e. **All of the above**

e. Correct. All are true statements.

12 Which of the following is a keyword in the C# programming language? (Select the best option)

- a. **goto**
- b. Local
- c. Inner
- d. Branch
- e. reference

a. Correct. goto is a keyword in the C# language

13 Given the code shown in the graphic, what is the result at line 5? (Select the best option)

- 1 string g1 = "1";
- 2 string g2 = "2";
- 3 string g3 = "";

4 `g3 = g1 + g2;`
5 `System.Console.WriteLine(g3);`

- a. 21
- b. 3
- c. 12**
- d. None of the above

c. *Correct. In line 1, g1 refers to a String object with “1” in it, and at line 2, g2 refers to a String object with “2” in it. Line 4 concatenates the two strings together, producing a variable named g3 consisting of the characters 1 and 2 side by side, or 12.*

- 14 Which of the following is a legal array declaration in C#? (Select the best option)
- a. `double [] myVariable;`
 - b. `string [] names;`
 - c. `float [] myNumb;`
 - d. `int [] myScores ;`
 - e. All of the above**
- e. *Correct. All offer legal array declarations, following the format of data type [Indexing operator] identifier name. To declare an array, you must not initialize the number of elements it will contain.*

- 15 Which of the following is true when the initial value of x is 5? (Select the best option)
- a. If `y = x++` then `y=6`
 - b. If `y = ++x` then `x=5`
 - c. If `y = --x` then `y = 5`
 - d. If `y = --x` then `x=4`**
 - e. None of the above
- d. *Correct. This statement is true. This is a pre-decrement. One unit is subtracted from x before being passed to y, so the final value of y is 4.*

Knowledge Check 2 - Solution

- 2) What happens during OOP?
- a. Programs are based on the concept of procedure call
 - b. Objects communicate and interact with each other using messages**
 - c. Programs are organized in a fashion similar to how we organize things in our every day lives
 - d. None of the Above

B) *Correct. Object-oriented programming involves objects that send and receive messages to invoke actions.*

- 3) Match the concepts in the list on the right with their correct descriptions.

C

- 1) The ability to hide the internal implementation details of an object from its

- a) Object

B
D
A

external view.

- | | |
|---|------------------|
| 2) The ability to create new classes based on existing classes. | b) Inheritance |
| 3) An object's ability behaves differently depending on its type. | c) Encapsulation |
| 4) A self contained entity with attributes and behavior. | d) Polymorphism |

- 1) *Encapsulation makes the implementation of an algorithm hidden from its client.*
 - 2) *Inheritance allows you to create a class that inherits the state and behaviors of its baseclass, thus creating new classes based on existing classes in the hierarchy.*
 - 3) *Polymorphism is generally the ability to appear in many forms. In object-oriented programming, more specifically, it is the ability to redefine methods for derived classes.*
 - 4) *An object is a self-contained entity with attributes and behaviors.*
- 4) Which of the following is true about a constructor? (Select the best option)
- a. **A constructor is a method that is invoked automatically when a new instance of a class is created.**
 - b. Constructors do not initialize the variables of the newly created object.
 - c. Constructors are used to remove objects from memory.
 - d. The constructor method should have a different name than the class name.
 - e. None of the above

A) *Correct. A constructor method is invoked automatically when a new instance of a class is created.*

- 5) Which of the following is true about overloading? (Select the best option)
- a. Overloaded methods must change the argument list
 - b. Overloaded methods can change the return type
 - c. Overloaded methods can change the access modifier
 - d. **All of the above**

D) *Correct. All of the statements are true about overloading.*

Explanation for Faculty:

A is a true statement. Method signature is defined by the method name and argument list. Overloaded methods are unique methods with the same name; therefore, the argument list must change.

B and C are also true statements because overloaded methods do not really care about the return type and access modifiers. They may or may not change their return types and modifiers.

- 6) Which of the following is true about overriding? (Select the best option)

- a. Overridden methods must exactly match the argument list
- b. Overridden methods must exactly match the return type
- c. The access level of overridden methods cannot be more restrictive
- d. You cannot override a method marked sealed
- e. **All of the above**

E) Correct. All of the statements are true. The access level of overriding methods should be less restrictive. A private declaration can be overridden to be protected and public, but a public declaration could only be overridden by a public modifier alone.

Explanation for Faculty:

A and B are true statements because overriding methods must have exactly the same method name, argument lists and return types.

D is a true statement because sealed methods cannot be overridden. Note the implication of 'sealed' keyword, sealed classes cannot be extended or inherited.

- 6) Which of the following is true about the parent-child assignment in inheritance? (Select the best option)
- a. child ≠ parent;
 - b. parent = child;
 - c. parent = (child) child;
 - d. child = (child) parent;
 - e. **All of the above**

E) Correct. All of the statements are true.

Explanation for Faculty:

A is a true statement. Child = parent is casting down the inheritance hierarchy, which is forbidden in C#. This results in a compiler error.

B is a true statement because Child inherits from Parent so Child is implicitly casted to type Parent.

C is a true statement. Although implicitly casted as in B, it could also be explicitly casted this way.

D is a true statement. Parent was forced to be casted to type Child. This will compile legally but at runtime, this statement will yield InvalidCastException.

- 7) Which of the following is true about polymorphism? (Select the best option)
- a. Polymorphism refers to an object's ability to behave similarly regardless of its type.
 - b. **Overloading is the process of reusing a method name but attached to a different signature in the same class.**
 - c. Overriding is the process of reusing a method name but attached to a different signature in the subclass class.
 - d. All of the above
 - e. None of the above

B) Correct. This statement is true about polymorphism.

- 8) Which of the following is a true statement? (Select the best option)

- a. The relationship between a class and its base class is an example of a "has-a" relationship.
- b. The relationship between a class and its base class is an example of an "is-a" relationship.**
- c. The relationship between a class and an object referenced by a field within the class is an example of a "is-a" relationship.
- d. None of the above

B) Correct. A subclass and its base class share an “is a” type of relationship.

- 9) Which of the following statements is true? (Select the best option)
- a. A constructor can invoke another constructor of the same class
 - b. A constructor cannot invoke itself
 - c. A constructor can invoke the constructor of the direct base class
 - d. All of the above**
 - e. None of the above

D) Correct. All of the statements are true. A constructor can only be invoked by another constructor.

Explanation for Faculty:

A is a true statement. Constructors can be overloaded but not overridden. To invoke another constructor of the same class, the keyword ‘this()’ is used.

C is a true statement. A constructor can invoke the constructor of the direct base class using “base()”.

- 10) Which of the following statements is true? (Select the best option)
- a. Constructors are not inherited
 - b. Constructors can be overloaded
 - c. Constructors must not have a return type
 - d. The constructor name must match the name of the class
 - e. All of the above**

E) Correct. All of the statements are true statements.

- 11) Which class is inherited by all other classes? (Select the best option)
- a. Object**
 - b. Exception
 - c. System
 - d. Threading

*A) Correct. The parent class of all classes in C# is the **Class Object**.*

- 12) Given the following code, which of the following output is correct? (Select the best option)

```

1  class ClassA
2  {
3      public ClassA()
4      {

```

```

5     System.Console.WriteLine("ClassA ");
6   }
7 }
8 class ClassB : ClassA
9 {
10   public ClassB()
11   {
12     System.Console.WriteLine("ClassB");
13   }
14   public static void Main(string[] args)
15   {
16     ClassA objB = new ClassB();
17   }
18 }
```

- a. ClassA
- b. ClassA**

ClassB

- c. ClassB
- d. None of the above

A) *Correct. By instantiating an object of type ClassB, the main method of ClassB invokes its constructor, in which there is an implicit call to base class, thus calling the constructor of ClassA printing "ClassA". Then, it goes back to the calling constructor in the subclass printing "ClassB".*

Knowledge Check 3a - Solution

- 7) What is the .NET collection class that allows an element to be accessed using a unique key?
- a. ArrayList
 - b. HashTable**
 - c. StringCollection
 - d. None of the above

Correct. HashTable is the collection class in which the elements can be accessed using a unique key.

Explanation for Faculty:

A is incorrect. ArrayList does not use unique key to access its elements. B is the correct answer. HashTable is the collection class in which the elements can be accessed using a unique key. C is incorrect. StringCollection does not use a unique key. One way of accessing elements in a StringCollection is by the use of the IEnumarator.

- 8) What is the top .NET class that everything is derived from?
- a. System.Collections
 - b. System.Globalization
 - c. System.Object**
 - d. System.IO

C) Correct. System.Object is the class everything is derived from in .NET.

- 9) Which of the following commands is suitable to use when manipulating large amounts of string? e.g. append / insert / delete (Select the best option)
- System.String
 - Char Array
 - Struct
 - StringBuilder**
 - All of the above

D) Correct. StringBuilder is best suited for this purpose as it does not create a new string everytime the value of the string is modified.

- 10) What namespace contains classes that can be used to define culture-related information?
- System.Globalization**
 - System.Localization
 - A custom namespace with custom functions written to handle localization
 - None as it is available by default.

A) Correct. System.Globalization class contains the required methods and/or properties necessary to create a localized application.

- 11) Which of the following should be inherited from when writing Custom Collections? (Select the best option)
- ICollection
 - CollectionBase**
 - Both A and B
 - Write your own base class and inherit from it.

B) Correct. All custom collection classes should inherit from CollectionBase.

- 12) Under what permissions do delegates run?
- Caller's permission**
 - Declarer's permission
 - It uses the most strict permission available
 - Runs under the least strict permission available
 - It does not require any permission to run.
- Correct. Delegates always runs under the caller's permission.*
- 13) Which of the following statements is/are true?
- XML serialization serializes only the public fields and property values of an object
 - XML serialization results in strongly-typed classes with public properties and fields that are converted to a serial format for storage or transport.
 - XML serialization converts all methods, private fields, or read-only properties (irrespective of their access modifier)
 - Only A & B**
 - None of the above

A) *Correct. XML Serialization can be used to serialize only the public fields and properties. To serialize all an object's fields and properties, both public and private, use the BinaryFormatter instead of XML serialization. Also, XML Serialization does not include any type information.*

14) The class that encapsulates the event information should be derived from:

- a. **System.EventArgs**
- b. System.EventHandler
- c. System.Delegate
- d. System.ComponentModel.EventDescriptor
- e. None of the above

Correct. The class that encapsulates the event information should be derived from EventArgs.

15) Which of the following statements is/are true?

- a. **A delegate can reference a method only if the signature of the method exactly matches the signature specified by the delegate type.**
- b. A delegate can reference a method as long as the return type matches the return type specified by the delegate type. There is no need for the parameters to match.
- c. A delegate can reference a method as long as the parameters and their data types match those specified by the delegate type. There is no need for the return type to be the same
- d. Both B and C are true.
- e. All of the above are true

A) *Correct. A delegate can reference a method only if the signature of the method exactly matches the signature specified by the delegate type.*

16) Which of the following classes are used to read and write encoded strings and primitive datatypes from and to streams

- a. StreamReader and StreamWriter
- b. **BinaryReader and BinaryWriter**
- c. StringReader and StringWriter
- d. TextReader and TextWriter

Correct. BinaryReader and BinaryWriter are used to read and write encoded strings and primitive datatypes from and to streams.

17) Generic types can be used (Select the best option)

- a. To maximize code reuse, type safety and performance.
- b. To create collection classes
- c. To create your own generic interfaces, classes, methods, events and delegates
- d. **All of the Above**

D) *Correct Generic types maximize the code reuse, are type safe and improve performance; they are used to create collection classes. We can also use them to create our own generic interfaces, classes, methods, events and delegates.*

18) Which of the following regarding iterators is true? (Select the best option)

- a. They are a method, get accessor or operator that supports foreach iteration in a class or struct
- b. They are used in collection classes
- c. Using an iterator allows us to traverse a data structure without having to implement the IEnumerable interface.
- d. A and C
- e. **All of the above**

E) Correct. All of the above are correct. Iterator is a method, get accessor or operator that supports foreach iteration in a class or struct. It is useful with collection classes. Iterator allows traversing a data structure without having to implement the IEnumerable interface.

- 19) Which of the following about partial types is true? (Select the best option)
- Allows us to split the definition and implementation of a method in a class across multiple files
 - Allows us to split the definition and implementation of a class across multiple files**
 - Allows us to split the method definition in one file and implementation in another file
 - All of the above

B) Correct. Partial type allows you to split the definition and implementation of a class across multiple files.

- 20) Which of the following is true concerning a static class?
- A static class allows adding non-static members
 - One can create instances of the static class
 - The keyword 'static' is used, when defining a static class**
 - One can create a derived class from a static class
 - All of the above

C) Correct. Keyword static is used when defining a static class.

Explanation*A static class does not allow adding of non static members. We cannot create an instance of a static class. A static class cannot be derived.*

- 21) What is the visibility qualifier used for? (Select the best option)
- Used for specifying different visibility for the get and set accessors of a property or an indexer**
 - Setting the visibility of the accessor get and set to public even though the property visibility is set to protected
 - Setting the visibility of the accessor and set to public even though the property visibility is set to internal
 - All of the above

A) Correct. The visibility qualifier is used for specifying different visibility for the get and set accessor of a property or an indexer.

- 22) Which of the following is true about Nullable Types? (Select the best option)
- A Value type variable can be assigned the value of null
 - HasValue and Value properties are used to test for null and to retrieve the value of a Nullable type
 - The System.Nullable.GetData property is used to return the assigned value
 - A and C
 - A and B**
 - All of the above

E) Correct. Nullable Types is a value type variable that can be assigned the value of null. The HasValue and Value property is used to test for null and to retrieve the value of a Nullable type.

Explanation

Nullable Types are value type variable that can be assigned the value of null. The HasValue and Value property is used to test for null and to retrieve value of a Nullable type. The System.Nullable.GetValueOrDefault property is used to return the assigned value or the default value for the underlying type

23) What are delegate inferences used for? (Select the best option)

- a. Used to declare a delegate object
- b. Used to wrap a method to a delegate object
- c. **Used to make a direct assignment of a method name to a delegate variable without wrapping it first with a delegate object**
- d. A and C
- e. All of the above

C) *Correct. A delegate inference is used to make a direct assignment of a method name to a delegate variable.*

24) What is true about Generic types? (Select the best option)

- a. System.Collections.Generic namespace in the .NET class library contains the generic collection classes
- b. You can create your own generic interfaces, classes, methods, events and delegates
- c. Reflection can be used to understand the information on the types used in a generic datatype
- d. **All of the above**

D) *Correct. System.Collections.Generic namespace is the .NET class library that contains the generic collection classes. Using generic types we can create own generic interfaces, methods, events and delegates. Reflection is used to know the information on the types used in a generic datatype.*

25) Which of the following is used as the global namespace qualifier?

- a. ::global
- b. **global::**
- c. global:
- d. None of the above

B) *Correct. The global namespace qualifier is global::*

26) Which of the following features were introduced in C# 2.0

- a. Partial Types
- b. Arrays
- c. Inline Warnings
- d. Global namespaces
- e. Options A, B, & C
- f. Options A, C, & D

F) *Correct. The features introduced in C# 2.0 are Partial Types, Inline Warnings and Global namespaces while arrays were introduced in C# 1.0.*

Knowledge Check 4a - Solution

27) What are Use Case diagrams typically used for? (Select the best option)

- a. **Communicate high-level functions of the system and the system's scope**

- b. Represent the relationship between objects
- c. Represent the sequence of actions performed by objects
- d. All of the above
 - a. *Correct. Usually use cases are used during the design and analysis phase of a project. This identifies the partition of the system into functionalities. The system is separated into actors and use-cases.*

b. *Explanation for Faculty:*

A is correct. Usually use cases are used during the design and analysis phase of a project. This identifies the partition of the system into functionalities. The system is separated into actors and use-cases.

B is incorrect. Relationships between objects are usually represented by various UML notations.

C is incorrect because sequence of actions is depicted by Sequence Diagrams. The diagram models the flow of logic within the system and one of the most important design-level models of application development.

28)What is a Design Pattern? (Select the best option)

- a. A design pattern represents any C# object
- b. A design pattern is a documented best practice**
- c. A design pattern represents Business Logic
- d. A and B
- e. All of the above

B) Correct. A design pattern is a documented solution to a common recurring software design problem.

29)Which of the following is a drawback of design patterns? (Select the best option)

- a. Design Patterns enable the large-scale reuse of software architectures.
- b. Design patterns help to improve developer communication
- c. Design patterns explicitly capture expert knowledge and design tradeoffs and make this expertise more widely available
- d. Design patterns do not lead to direct code reuse**
- e. All of the above

A) Correct. Because certain design patterns are specialized to address specific issues, they do not allow for direct reuse of code very often.

30)Which Design Pattern ensures a class has only one instance and provides a global point of access to it? (Select the best option)

- a. Adapter Pattern
- b. Bridge Pattern
- c. Façade Pattern

- d. Interpreter Pattern
- e. Singleton Pattern**

A) *Correct. Singleton is a class where only a single instance can exist. Usually, the constructor of a class that exhibits a singleton pattern is declared private.*

31) What does an Actor in a Use Case diagram represent? (Select the best option)

- a. A person
- b. An organization
- c. An external system
- d. A & C
- e. All of the above**

Correct. All are correct options. The actor can be a person, an organization or an external system that plays a role in one or more of the interactions in the system. Usually actors are drawn as stick figures.

32) What does a design address? (Select the best option)

- a. How to meet the business requirements**
- b. When to meet the business requirements
- c. Why to meet the business requirements
- d. Where to meet the business requirements

A) *Correct. The design addresses the specific ways to meet the business requirements.*

33) Which of the following are detailed design activities?

- a. Specifying relationships among objects
- b. Specifying sequence of actions among objects
- c. Specifying standard solutions to common problems
- d. Specifying system responses to user requests
- e. A, B and D**

F) *Correct. These three points are detailed design activities.*

34) Which of the following are goals of the Design Phase?

- a. Ensure a full understanding of the implementation blueprint
- b. Detail how the application will meet the identified functional requirements
- c. Communicate application design to development teams
- d. As an input deliverable for development budget estimate
- e. A, B and C**

E) *Correct. These three points are goals of the design phase.*

35) Which design pattern lets a class defer instantiation to subclasses? (Select the best option)

- a. Abstract Factory
- b. Factory Method**

- c. Singleton
- d. Façade

Correct. Factory Method creates an instance of several derived classes.

Explanation for Faculty:

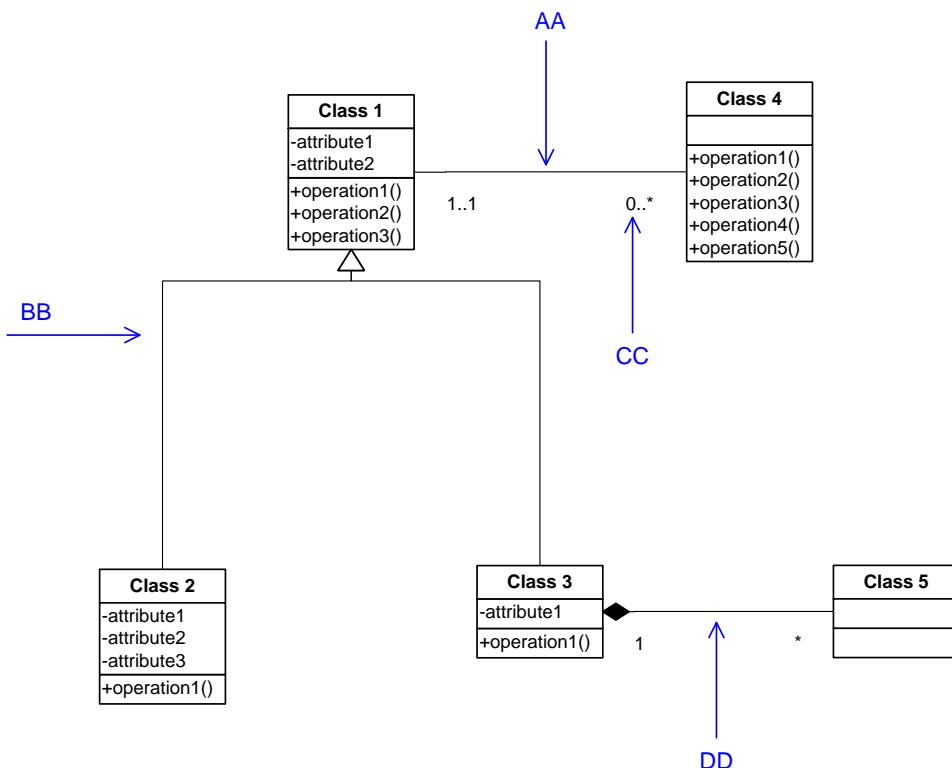
A is incorrect. Abstract Factory creates an instance of several families of classes.

B is correct. Factory Method creates an instance of several derived classes.

C is incorrect. Singleton is a class where only a single instance can exist. Usually, the constructor of a class that exhibits a singleton pattern is declared private.

D is incorrect. Façade Pattern makes a single class represent an entire subsystem.

Use the following diagram for questions 10-13



- 36) Referring to the above diagram, what does arrow AA represent? (Select the best option)
- a. Generalization
 - b. Multiplicity
 - c. Association**
 - d. Composition
- 37) Referring to the above diagram, what does arrow BB represent? (Select the best option)
- a. Composition
 - b. Generalization**
 - c. Association

d. Multiplicity

38) Referring to the above diagram, what does arrow CC represent? (Select the best option)

- a. **Multiplicity**
- b. Composition
- c. Generalization
- d. Association

39) Referring to the above diagram, what does arrow DD represent? (Select the best option)

- a. **Composition.**
- b. Multiplicity.
- c. Generalization.
- d. Association.

Feedback: (for Questions 10 - 13)

Association is denoted by a direct line between two classes. It is the weakest of relationships.

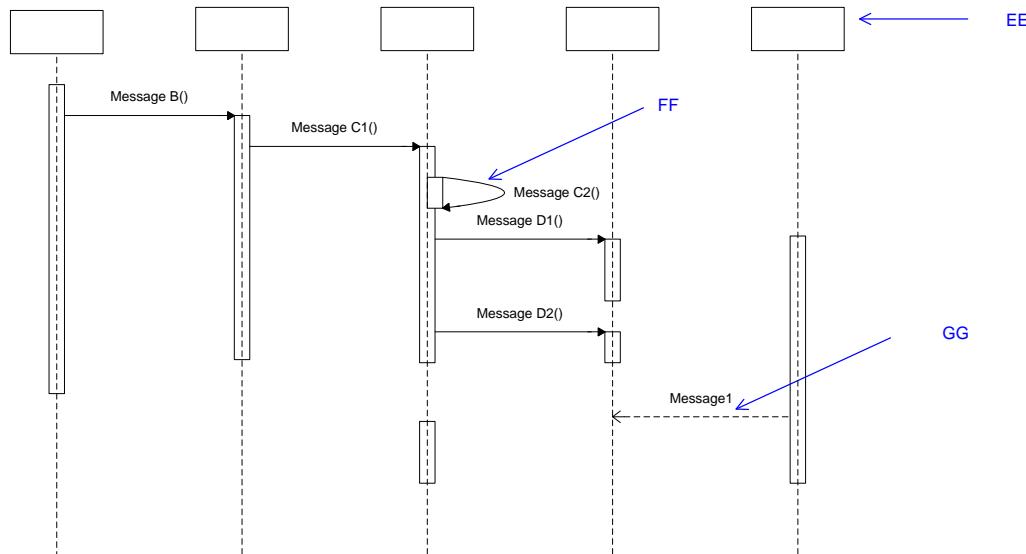
Generalization (or inheritance relationship) is denoted by a solid line with a large hollow triangle.

Multiplicity uses numerals at either end (or both ends) of the association relationship. "1" means "exactly one", "0..1" means "zero or one", "0..*" means "zero or more", etc.

Composition is denoted by a line with a "filled diamond" at the end.

Use the following diagram for questions 14-16.

Sequence Diagram



40) Referring to the above diagram, what does arrow EE represent? (Select the best option)

- a. Sequence

- b. Method
- c. An Actor
- d. **An Object**

A) *Incorrect. Usually inside the box is the name of the reference variable referring to the object.*

B) *Incorrect. Usually inside the box is the name of the reference variable referring to the object.*

C) *Incorrect. Usually inside the box is the name of the reference variable referring to the object.*

D) *Correct. Usually inside the box is the name of the reference variable referring to the object.*

41) Referring to the above diagram, what does arrow FF represent? (Select the best option)

- a. Instantiate an object
- b. Access the member attributes
- c. **Invoke the member method**
- d. All of the above

A) *Incorrect. In sequence diagrams, you could see which methods are invoked in the program flow.*

B) *Incorrect. In sequence diagrams, you could see which methods are invoked in the program flow.*

C) *Correct. In sequence diagrams, you could see which methods are invoked in the program flow.*

D) *Incorrect. In sequence diagrams, you could see which methods are invoked in the program flow.*

42) Referring to the above diagram, what does arrow GG represent? (Select the best option)

- a. **Return value**
- b. An object
- c. Active
- d. Iteration

A) *Correct. A broken line with an arrowhead pointing to the left is used to denote a return value. This is optional but for clarity of the diagrams, they may be included.*

Use the following diagram for questions 16 -19

43) Referring to the above diagram, what does arrow HH represent? (Select the best option)

- a. Generalization
- b. **Association**
- c. Aggregation
- d. Dependency

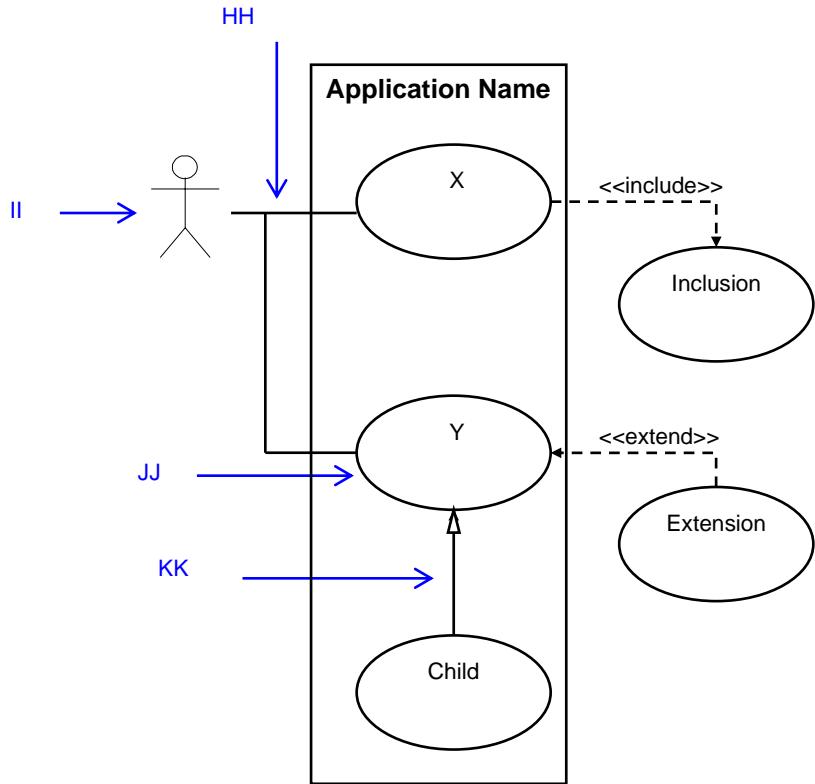
44) Referring to the above diagram, what does arrow II represent? (Select the best option)

- a. **Actor**
- b. Association
- c. Dependency
- d. Composition

45) Referring to the above diagram, what does arrow JJ represent? (Select the best option)

- a. Actor

- b. Dependency
- c. **Use Case**
- d. Multiplicity



46) Referring to the above diagram, what does arrow KK represent? (Select the best option)

- a. Association
- b. Use case
- c. Actor
- d. Generalization

Feedback:

Following the notes for questions 10 – 13 with some additions on actors and use cases.

Association is denoted by a direct line between two classes. It is the weakest of relationships.

Generalization (or inheritance relationship) is denoted by a solid line with a large hollow triangle.

Multiplicity uses numerals at either end (or both ends) of the association relationship. “1” means “exactly one”, “0..1” means “zero or one”, “0..*” means “zero or more”, etc.

Composition is denoted by a line with a “filled diamond” at the end.

Actors are usually drawn as stick figures. He can be a person, an organization or an external system that plays a role in one or more of the interactions in the system. Use Cases describes an action that provides something of measurable value to an actor, and is drawn as a horizontal ellipse.

Knowledge Check 5a - Solution

47) What is testing? (Select the best option)

- a. A software problem
- b. **A structured way of validating the requirements and ensuring that the solution meets the expectations**
- c. A deliverable that defines the characteristics of a service and the relationship between the service provision units
- d. All of the above

B) Correct. Testing is a structured way of validating requirements and ensuring the product meets expectations. In addition, testing also identifies the accuracy and quality of the developed product.

48) Which of the following comprise the scope of the testing process? (Select all that apply)

- a. **Functional**
- b. **Technical**
- c. **Operational**
- d. **Maintenance**
- e. Financial

A) Correct. Functional is a scope of the testing process.

B) Correct. Technical is a scope of the testing process.

C) Correct. Operational is a scope of the testing process.

D) Correct. Maintenance is a scope of the testing process.

49) What is the purpose of testing? (Select the best option)

- f. Detect and resolve errors as early as possible
- g. Verify that the application meets the requirements
- h. Train and pass the ownership to the users
- i. Ensure client operations are functioning upon deployment of the application
- j. **All of the above**

Correct. All of the options describe the purpose of testing. Additionally, the goal of any software development is to create high quality applications, which can be achieved by a thorough testing process.

50) All of the following are valid groups of test conditions except (Select the best option)

- a. Test conditions which involve successful operations
- b. Test conditions which determine the component's capability to detect and handle errors
- c. **Test conditions which involve unintentional successful operations**
- d. Test conditions which determine the component's capability to handle exceptional circumstances

A) Correct. In testing, every test condition contains an expected result. Ideally, the expected results will be the same as the actual result.

51) Stage containment is achieved by practicing which of the following? (Select the best option)

- a. Verification
- b. Validation

- c. Testing
- d. Entry and Exit criteria
- e. All of the above**

A) *Correct. All are correct options. Stage containment identifies problems in the system during development before they are passed to the next stage. This is achieved by verification, validation, testing and entry and exit criteria.*

52) Which of the following is normally true? (Select the best option)

- a. Developer will perform the component test
- b. Tester will perform the product test
- c. Client will perform the user acceptance test
- d. All of the above**
- e. None of the above

D) *Correct. All are true statements.*

53) Which of the following describes a performance test? (Select the best option)

- a. Testing input data ranges
- b. Testing member method correctness
- c. Testing response time**
- d. Testing return value

C) *Correct. Performance Tests generally include load, stress, stability, throughput testing and ongoing performance monitoring including response time. The performance test stage generally covers both application and technical architecture performance issues.*

54) What does a Test Plan contain? (Select the best option)

- a. Test condition
- b. Test result
- c. Test script
- d. All of the above**

Correct. TCER stands for Test Conditions and Expected Results; also included in the TCER is the Test script.

55) Which of the following statements about traceability is true relative to the V-Model? (Select the best option)

- a. Component test traces back to the build activity
- b. Assembly test traces back to the design activity

- c. UAT traces back to the analyze activity
- d. All of the above**
- e. None of the above

D) Correct. All of the statements are true.

- 56) Which of the following is an advantage of NUnit? (Select the best option)
- a. NUnit tests allow you to write code faster while increasing quality
 - b. NUnit is elegantly simple
 - c. NUnit tests check their own results and provide immediate feedback
 - d. All of the above**
 - e. None of the above

D) Correct. All are an advantage of NUnit.

- 57) What is the worst possible scenario that could occur given a lack of stage containment during the testing process? (Select the best option)
- a. Flawed components are detected and sent back to the build phase
 - b. Flaws in the application are only detected during the deployment phase**
 - c. Components fail to integrate and are reevaluated for further design
 - d. Flaws are detected during requirements analysis, delaying the build

Correct. While the other scenarios are bad, this is the worst case. Only detecting flaws during the deployment will potentially delay deployment while all the flaws are sorted out and addressed.

- 58) Which of the following is true about stage containment? (Select the best option)
- a. Identifies problems in the system during the development before they are passed to the next stage
 - b. Helps to build quality into the system
 - c. Minimizes cost and effort for fixing problems
 - d. Finds problems or errors in the stage they originate/occur

E) Correct. All of the statements about stage containment are true.

- 59) What happens if component tests are performed incorrectly? (Select the best option)
- a. Subsequent testing may be delayed
 - b. Additional time and resources may be required
 - c. Installation of the client's system may be delayed
 - d. A & B

e. All of the above

E) Correct. All of the options are after-effects of performing component tests erroneously.

60) For which of the following is NUnit best utilized? (Select the best option)

- a. Performance Test.
- b. **Unit Testing and Regression Testing**
- c. Product Test.
- d. Assembly Test.

A) Correct. NUnit is best used for Unit testing and Regression testing. For the other tests, there are various established mechanisms of executing the test process

61) What namespace is used for NUnit class?

- a. **NUnit.Framework**
- b. NUnit.Test
- c. TestNUnit
- d. UnitNTTest

A) Correct. A test class is created using NUnit.Framework namespace.

62) Which of the following best describes the purpose of the Assert methods of NUnit? (Select the best option)

- a. **To determine the correctness of the expected results**
- b. To ensure the member methods are compiling properly
- c. To validate the business logic
- d. None of the above

A) Correct. There are many Assert.Xxx() methods of NUnit, like Assert.AreEqual, Assert.IsTrue, Assert.IsNotNull, etc., which aim to verify the correctness of each result in the code.

Knowledge Check 6A - Solution

63) Which of the following is an SQL command? (Select the best option)

- a. INSERT
- b. COMMIT
- c. UPDATE
- d. DELETE
- e. **All of the above**

E) Correct. All are valid SQL commands.

64) SELECT *
FROM Customers
WHERE Phone LIKE '6_6%'

Which Customer Phone column will be selected when the above query is executed? (Select the best option)

- a. **626 362-2222**
- b. 416 626-6232
- c. 623 455-6545
- d. All of the above

A) *Correct. The underscore ‘_’ wildcard matches any single character in that particular position. The percentage sign ‘%’ matches to any number of characters in that specific position. Only option A satisfies this requirement for ‘6_6%’.*

65) Which of the following “ORDER BY” clauses displays the result in a descending order by the attribute salary? And, if two records have the same attribute value for salary the sorting criteria is in an ascending order by the attribute value for job_id? (Select the best option)

- a. ORDER BY salary DESC and job_id ASC
- b. ORDER BY job_id ASC and salary DESC ASC
- c. **ORDER BY salary DESC, job_id ASC**
- d. ORDER BY job_id ASC, salary DESC
- e. None of the above

A) *Correct. This option will display records of salary sorted in descending order with a secondary sort by job_id in ascending order.*

Explanation for Faculty:

Order By clause is used to sort data selected from the table in a specified order and can only be used in SELECT statements. The syntax is “ORDER BY columns ASC|DESC”. By default, it is set to ascending order.

66)

- 1 Select savings account
- 2
- 3 Update savings account
- 4
- 5 Select checking account to update
- 6
- 7 Update selected checking account with the values from the savings account
- 8

Given the above pseudo code that transfers funds from a savings account to a checking account, where would you add a COMMIT statement to complete the transaction? (Select the best option)

- a. After line 1
- b. After line 3

c. After line 5

d. **After line 7**

A) *Correct. Usually a commit statement is added only when all series of commands (or the whole complete transaction) is finished.*

67) Which statement about SqlDataReader in ADO.NET is true?

a. It is the most efficient object in ADO.Net for quickly reading data

b. Data can be read only in a forward stream of rows

c. .ExecuteReader method of SqlCommand object is used to create a SqlDataReader

d. **All of the above**

A) *Correct. All of the above statements for SqlDataReader are correct*

68) Which of the following is true about ADO.NET?

a. Is an object – oriented set of libraries that allow you to interact with data sources

b. Classes are found in System.Data.dll

c. ADO.Net classes are integrated with XML classes

d. Contains .Net framework Data providers for connecting to a database

e. **All of the above**

A) *Correct. All of the statements about ADO.Net are true.*

69) What is SQL (Structured Query Language)? (Select the best option)

a. A software problem

b. A structured way of validating the requirements and ensuring that the solution meets the expectations

c. **A standard interactive and programming language for getting information from and updating a database**

d. All of the above

C) *Correct. SQL has become an industry standard for creating, updating and querying database management systems.*

70) With SQL, how do you select a column named “FirstName” from the table named “Persons”? (Select the best option)

f. Extract FirstName from persons

g. SELECT Persons.FirstName

h. **SELECT FirstName from Persons**

i. None of the above

C) *Correct. The syntax for the Select command is “SELECT column FROM table”.*

71) Which of the following is true about SQL statements? (Select the best option)

- a. SQL statements are not case sensitive
- b. SQL statements can be on one or more lines
- c. SQL statements are optionally ended with “;”
- d. **All of the above**
- e. None of the above

D) *Correct. All of the statements are true.*

71) Character strings and dates in the *Where* clause must be enclosed in: (Select the best option)

- k. **Single Quotation marks ('')**
- l. Parenthesis
- m. Double Quotation marks (“”)
- n. None of the above

A) *Correct. Single quotation marks are used to enclose characters, strings and dates.*

72) Which SQL statement is used to insert new data in a database? (Select the best option)

- a. Add New
- b. Add Record
- c. **Insert Into**
- d. Insert New
- e. None of the above

C) *Correct. Insert Into is the only command for inserting data.*

73) In SQL, how do you select all the records from a table named "Persons" where the value of the column "FirstName" is "Peter"? (Select the best option)

- f. SELECT [all] FROM Persons WHERE FirstName='Peter'
- g. **SELECT * FROM Persons WHERE FirstName='Peter'**
- h. SELECT * FROM Persons WHERE FirstName LIKE 'Peter%'
- i. SELECT [all] FROM Persons WHERE FirstName LIKE 'Peter'

B) *Correct. This option retrieves records from the Persons table with Peter as the firstname.*

74) Which SQL keyword is used to sort the result-set? (Select the best option)

- f. Group By
- g. Arrange By
- h. **Order By**
- i. Sort By

C) *Correct. 'ORDER BY' is the best keyword used to sort either by ascending or descending.*

75) Which statement is used to change "Hansen" into "Nilsen" in the "LastName" column in the Persons table? (Select the best option)

- a. UPDATE Persons SET LastName='Hansen' INTO LastName='Nilsen'

- b. MODIFY Persons SET LastName='Hansen' INTO LastName='Nilsen'
- c. UPDATE Persons SET LastName='Nilsen' WHERE LastName='Hansen'
- d. MODIFY Persons SET LastName='Nilsen' WHERE LastName='Hansen'

C) *Correct. This option contains the correct syntax for updating rows in a table.*

76) Which of the following are Transaction Control statements? (Select the best option)

- a. Commit
- b. Rollback
- c. Order By
- d. **A & B**
- e. All of the above

A) *Correct. Both Commit and Rollback are transaction control statements. Commit is used to commit the current transaction, making all the previous changes permanent, while rollback aborts the current transaction, discarding all the updates of that particular transaction.*

77) Which of the following is an ADO.NET Data provider (Select the best option)

- a. OleDb Data Provider
- b. ODBC Data Provider
- c. Oracle Data Provider
- d. SQL Data Provider
- e. **All of the above**

E) *Correct. All of the above listed data providers are ADO.NET data providers.*

78) Match the concepts in the list on the right with their correct descriptions.

b	1) Retrieves a single value (for example, an aggregate value) from a database	a) ExecuteXmlReader
d	2) Executes commands that return rows	b) ExecuteScalar
c	3) Executes commands such as Transact-SQL INSERT, DELETE, UPDATE statements	c) ExecuteNonQuery
a	4) Sends the CommandText to the Connection and builds an XmlReader object	d) ExecuteReader

Feedback:

- A) *ExecuteScalar retrieves a single value (for example, an aggregate value) from a database*
- B) *ExecuteReader executes commands that return rows*
- C) *ExecuteNonQuery executes commands such as Transact-SQL INSERT, DELETE, UPDATE, and SET statements*
- D) *ExecuteXmlReader sends the CommandText to the Connection and builds an XmlReader object.*

79) Which of the following is the **correct** Connection string format used for connecting a SQL Server Database? (Select the best option)

- f. `SqlConnection conn = new SqlConnection("Data Source = DatabaseServer; Initial Catalog=Northwind;User ID = YourUserID ; Password =YourPassword");`
- g. `SqlConnection conn = new SqlConnection("Data Source = (local);Initial Catalog ="; Integrated Security= 'Northwind');`
- h. `SqlConnection conn = new SqlConnection("Initial Catalog = Northwind");`
- i. `SqlConnection conn = new SqlConnection("Data Source = (local);Initial Catalog ='SSPI'; Integrated Security= 'Northwind');`

A) *Correct. A valid SQL Connection should contain following parameters: database server name, name of the database and security credentials.*

Knowledge Check 7a - Solution

80) What is the architecture of a system? (Select the best option)

- a. **A comprehensive framework that describes the system's form and structure, its components and the relationship among them**
- b. Defines the requirements obtained from a client
- c. Defines how a user interacts with the system
- d. Defines the validation criteria for input data

A) *Correct. Architecture is a structure or structures of the system that is comprised of software elements and the relationship among them.*

Explanation for Faculty:

A is correct. It is a structure or structures of the system that is comprised of software elements and the relationship among them. B is incorrect. The requirements by the client are first defined before a specific architecture is decided to address the solution. C is incorrect. Use Cases define how a user interacts with the system. D is incorrect. Validations are handled by specific components within the application.

81) Which of the following describes how stubs can be used? (Select the best option)

- a. Reduce dependency between developers
- b. Simulate the defined functionality of a class which may or may not have been developed yet
- c. Act as a proxy for a class whose implementation resides in a remote location
- d. A and B
- e. **All of the above**

E) *Correct. All of the statements describe the purpose of stubs.*

82) In 3-tier architecture, which of the following is handled by the Application layer? (Select the best option)

- a. Form validations
- b. Data Manipulation
- c. Business Logic

- d. **B and C**
- e. All of the above

D) Correct. The Data Manipulation and Business Logic is handled by the Application Layer.

83) What is the role of the View in MVC? (Select the best option)

- a. **To render the information to the client**
- b. To access the database
- c. To access the application layer
- d. To control the program flow

B) Correct. View in the MVC model is for the Presentation Layer, which renders the information to the client.

Explanation for Faculty:

A is correct. View in the MVC model is for the Presentation Layer. It can be done using ASP. NET, HTML, etc. Additionally, M stands for the model, which may be Business Components. C stands for Controller.

84) VSS is used for which of the following? (Select the best option)

- a. Used to manage multiple projects regardless of the file types
- b. Stores both the old version and new version of files in the database
- c. Provides access control of files based on person and groups
- d. For integration with Visual Studio 2005, Visual Basic and other development tools
- e. **All of the Above**

E) Correct. VSS is used to manage multiple projects, Stores both old version and new version of files in the database , provides access control of files and can be easily integrated with visual studion.Net, visual basic etc.

For question 6, review the code sample below.

```
static void Main(string[] args)
{
    int x = 10, y = 0, c;
    try
    {
        c = x / y;
    }
    catch (Exception e)
    {
        Console.WriteLine("I am in general Exception");
    }
    catch (DivideByZeroException ex)
    {
        Console.WriteLine("I am in Divide by Zero Exception");
    }
}
```

85) What will be the output of the above code sample

- a. The code will not display any thing
- b. Will display "I am in Divide by Zero Exception" statement
- c. Will display I am in general Exception" statement
- d. Will not compile and display error "A previous catch clause already catches all exceptions of this or of a super type ('System.Exception')"
- e. Will display both the statements viz. "I am in Divide by Zero Exception" and "I am in general Exception"

A) *Correct. D is correct answer. The code sample should throw an DivideByZeroException exception, but the previous catch is of super type, which catches all exception so will display "I am in General Exception"*

86) In the following line of code, what does the variable pnow contain? (Select the best option)

```
DateTime pnow = DateTime.Now;
```

- a. Leap Year
- b. An instance of a DateTime class
- c. The current DateTime
- d. An instance of the Date class

A) *Correct. C is the correct answer. DateTime.Now will return the current system date and time*

87) Which of the following statements are true? (Select the best option)

- a. When checking in a file to VSS, you should always write comments about the file version
- b. VSS will allow you to share files between two or more projects
- c. You should only check in files without errors
- d. B and C
- e. **All of the above**

B) *Correct. All three are true statements. You should write comments whenever you commit files to the VSS to easily track the revision history. You can share file between two or more projects. Also, never commit files with errors.*

Explanation for Faculty:

F is the best answer F is the best answer because A, B and C are true statements. You should write comments whenever you commit files to the VSS to easily track the revision history. You can share file between two or more projects. Also, never commit files with errors..

88) To create a stub for a class, the programmer needs to: (Select the best option)

- a. **Know the contract design about the class that the stub is supposed to simulate**
- b. Know the exact implementation of the class that the stub is supposed to simulate
- c. Change the public interface of the class that the stub is supposed to simulate
- d. All of the above
- e. None of the above

Correct. The programmer needs to know at least the method signatures and the behavior of the specific method (i.e., the API). This is the benefit of designing by contract wherein two parties agree to implement the same set of API so all components integrate together.

89) What is NAnt ?

- a. A .Net build tool, designed to work with any .NET language.
- b. A tool to combine projects written in different .NET languages in one build
- c. It is an automated continuous Integration Server

d. All of the above

- A) *Correct. A & B are correct. NAnt is a .NET build tool designed to work with any .NET language. It can also be used to combine projects written in different .NET languages in one build. So A & B is partly correct*
-

Can SOAP messages be used by programs running on the same machine to exchange messages?

Yes

No

Depends on the Architecture of the machine

ANSWER 1

Popup boxes supported by Javascript

Alert

Confirm

Prompt

Msgbox

CORRECT_ANSWER 1,2,3

Which method of the DbCommand object executes a DML statement against a connection and returns the number of rows affected?

ExecuteReader()

CreateObjRef()

ExecuteNonQuery()

ExecuteScalar()

ANSWER 3

InsertCommand ,UpdateCommand and DeleteCommand properties are available in _____ object.

DataAdapter

DataReader

DataSet

Command

ANSWER 1

_____ enables you to create different views data from the Datatable object.

DataAdapter

DataSet<

DataView<

Command<

ANSWER 3

sum=num1+num2

document.write(sum);

What is the value of sum in the script

0

Garbage value

1

Error - No Output

Ans: 4

Which of the following components of a data provider is used to retrieve, insert, delete, or modify data in a data source?

Connection

Command

DataReader

DataAdapter

ANSWER 2

How does Code Coverage helps while developing an application?

It helps to understand the load the application can take.

Code Coverage doesn't help while developing an application

It helps to understand the max number of users that can operate the application.

It helps to understand the level to which the source code of the application has been tested

ANSWER 4

When is the TestCleanUp() attribute called ?

Before the execution of TestMethod()

After the execution of TestClass()

After the execution of TestMethod()

When the TestClass() loads

ANSWER 3

A service provider describes its service using

WSDL

UDDI

XML

None of the above

ANSWER 1

Select the statements which are not true about the MDD Architecture

Boundaries allow the architect to communicate the scope of the solution.

Boundaries, Structure and Domain Model are the aspects of the MDD architecture.

Models facilitate to understand and communicate complex ideas effectively.

All of the above

ANSWER 4

If the code on line 3 executes successfully.

If the code on line 3 throws an exception.

If the code on line 1 throws an exception.

If the code on line 5 throws an exception.

1,2,4

```
void Page_Load(Object Sender, EventArgs c)
```

The above programme will generate which type of error?

Runtime error
Compilation error
Configuration error
Parser error

ANSWER 2

A _____ subquery executes as many times as the inner query executes.

Subquery with the ANY clause.

Subquery with the ALL clause.

Subquery with the IN clause.

Non-correlated.

Co-related

ANSWER 5

Code Analysis is done for _____

Both Managed and Unmanaged Code

Part of build process and check-in policy

Data driven tests and Code Coverage

Sampling and Instrumentation

ANSWER 1,2

Following is not the type of test covered in VSTS Test Edition

Web Test

Load Test

Generic Test

Ordered Test

None of the above

Given using system namespace Test{ insert code here}

```
public int getId() {return 101; }
```

```
private int getId() {return 101; }
```

```
protected int getId() {return 101;}
```

```
int getId() { return 101;}
```

ANSWER 1,2,3,4

Given View the code snippet, and choose appropriate .

An exception is thrown

Compilation fails

Prints 3

Prints 0

ANSWER 2

1 Inheritance: What will be the output of the program?

Prints hi two

Prints two

Prints hi hello

Prints hi

Prints hello

ANSWER 4

What will be the output of code

125

25

5

Any Random Number gets printed

ANSWER 1

If we want to perform a test on the HTTP request, which of the following test would be used?

Web Test

Load Test

Generic Test

Ordered Test

None of the above

ANSWER 1

If you want to separate your server-side code from your client-side code on a Web page, what programming model should you implement?

Separation model

Code-Behind model

In-Line model

ClientServer model

ANSWER 2

In ASP, which of the following attributes are applicable to Form control

Action

Method

Get

Post

ANSWER 1,2

In SOA, Which of the following tier provides adapters for the various types of platforms which cannot natively expose services?

Provider Adapter Tier

Consumer Adapter Tier

Consumer Provider Interaction Tier

Service Provider Tier

None of the above

ANSWER 1

The _____ functionality of ACA.NET enables customers to quickly realize the benefits of service-enabled applications

Programming

ASA

SOA

SOAP

ANSWER 3

The ACA.NET _____ and _____ provide a model-driven surface that accelerates development

Service Factory

Aspect Factory

Soap Factory

Web Factory

ANSWER 1,4

View the code Snippet, evaluate the result.

Tony Allen age 32

Tony Allen, age 32

Tony Allen; age 32

None of the above

ANSWER 2

Which of the following is not an of alter statement?

drop column

modify

add

ANSWER 2

Which of the following is true about GROUP BY clause:
1) All the non-aggregate columns have to be used in the group by clause.
2) Having by clause cannot be used without the GROUP BY clause.

Statement 1 is true.

Statement 2 is true.

Both the statements are true.

None of the statements are true.

ANSWER 3

While viewing an ASP.NET page, if we are monitoring the following steps, is the web page being viewed a static web page or dynamic web page?
i. Client Sends the HTTP request to the server
ii. Server Executes the program responsible for generating the requested page
iii. Program generates the HTML for the requested page
iv. Server sends the HTML file as an HTTP Response
v. Browser displays the HTML page

Static Web Page

Dynamic Web Page

ANSWER 2

You make most initial contacts to a page using a _____ command and you handle the subsequent interactions with _____ commands.

Get, Post

Post, Get

Get, Head

Post, Head

ANSWER 1

Controls that incorporate logic to enable you to what users enter for input controls such as the TextBox control are called as _____

Web Server Controls

HTML Controls

Validation Controls

User Controls

ANSWER 3

To retrieve the information identified by the URI specified by the request we should use _____

Post

Get

Head

None of the above

ANSWER 2

Required to implement AccountInfo abstract class in Savings class.

To implement PrintAccountInfo function override keyword is needed.

```
public override void PrintAccountInfo()  
public void override PrintAccountInfo()  
void override PrintAccountInfo()  
public void PrintAccountInfo()
```

ANSWER 1

Abstract

What is the output of the code

100, 200, 110

100, 200, 100

Code would result in an error – Can not create an instance of the abstract class

None of the above

ANSWER 3

John wanted to create an XML file to store the user's information. He coded it as follows-

<?xml

version=1.0?><username>John</username><age>30</age>
Will this code work for him?

Yes

No

ANSWER 2

Which of the following statements are true about SOAP

It's a directory service which is used to list the applications that can provide services.

It enables applications to find services and decide on how data and services can be shared.

It enables applications to agree on how data and services are to be communicated.

None of the above

ANSWER 3

Which of the following statements are true about the Service Provider -

The Service Provider creates web services and publishes the interface and access information to the service broker.

The Service Provider makes decision regarding - which of his services needs to be exposed, under which category the service should be listed and what sort of partner agreements are required.

The Service Provider is responsible for making the Web service interface and implementation access information available to any service requestor.

The Service Provider locates entries in the broker registry using various find operations

ANSWER 1

1. What is the output of the following Command

\$ls -R | wc - l | cat > sampleFile

1>The output of ls command is stored in SampleFile

2>The output of wc command is stored in SampleFile

3>The output of ls is treated as input to wc and the count is stored in SampleFile

4>The output of ls is treated as input to wc and the count is displayed and stored in SampleFile

ANSWER>3

2. What is the output of the following command

\$ cat File1>File2>File3

1>Copies the contents from File1 to File2 and File3

2>It is a wrong command - gives error

3>Copies File1 contents to File3

4>Copies File1 to File3 and creates an empty file File2

5>None of them

ANSWER>4

3. What is the command to Print the searched pattern with the line numbers in File1

1>\$grep -N "Accenture" File1

2>\$grep -nv "Accenture" File1

3>\$grep -n File1

4>\$grep -n "Accenture" File1

5>All are correct

6>None

ANSWER>4

4. What is the output of the following command

\$rmdir dir1 dir1/dir2/dir3

1>deletes dir1 and dir3 directories

2>deletes dir1 directory

3>deletes dir1 dir2 and dir3 directories
4>error
ANSWER>4

5. In the vi editor to delete a char

- 1>h
- 2>j
- 3>x
- 4>k
- 5>l

ANSWER>3

6. To save a file without quitting the vi editor is done using the command

- 1>:q
- 2>:w
- 3>:w!
- 4>:wq
- 5>:q!

ANSWER>2

7. What is the output the following command

- % sort -t “|” +3 -5 Students
- 1>The records will be sorted based on 4th to 5th columns
 - 2>The records will be sorted based on 3rd and 5th columns
 - 3>The records will be sorted based on 3rd to 5th columns
 - 4>The records will be sorted based on 3rd to 4th columns
- ANSWER>1

8. Unix file system has which of the following file structure

- 1>Tree Structure
 - 2>Standard Structure
 - 3>Hierarchical Structure
 - 4>None of the above
- ANSWER>3

9. In unix grep-n command displays the

- 1>Line matching the pattern along with its line number
 - 2>Only a count of the line that match a pattern
 - 3>Prints out all those lines that do not match the pattern
 - 4>None of the above
- ANSWER>1

10. Which of the following represents an absolute path?

- 1>.. /home/abc.txt
 - 2>bin/cat
 - 3>abcd/
 - 4>/usr/bin/cat
- ANSWER>4

11. Kernel Manage

- 1>Entire resources of the system

2>Schedules the work done by the CPU

3>Enforces the security scheme

4>a & b

5>b & c

6>a b & c

ANSWER>6

12. Which option of grep displays the count of lines matching the pattern

1>-c

2>-nc

3>-v

4>-lc

5>-ln

ANSWER>1

13. You have a file with numerical data in it (i.e file with list of numbers in it). To sort this data which command/method you will prefer most. Assume that list is reasonably small and Quick output is high priority.

1>sort <file_name>

2>sort -n <file_name>

3>Write a C/C++ program. Use quick sort.

4>Write a C++ program. Use STL sort algorithm

ANSWER>2

14. You can always return to your home directory by using the command

1>cd /

2>cd \

3>cd HOME

4>cd ..

5>cd

ANSWER>5

15. You are currently placed in “trng” directory placed under the directory “training”. The command to move the file “file1” from “trng” directory to “data” directory placed under the directory “training” is:

1>mv file1 data

2>mv file1 data/.

3>mv file1 ../data/.

4>mv ..//file1 ..//data/.

5>mv file1 /data/.

ANSWER>3

16. You are currently placed in “data” directory placed under the directory “training”. The command to copy the file “file1” from “data” directory to “trng” directory placed under the directory “training” is:

1>cp file1 ..//trng/.

2>cp file1 /trng/.

3>cp ..//file1 ..//trng/.

4>cp file1 /trng/.

5>cp file1 trng/.

ANSWER>1

17. who | wc -l

What is the output of the following command if 10 users are connected?

1>It will display the list of all the users connected.

2>It will display an error in the command

3>10

4>None of the above

ANSWER>3

18. Which unix command gives the number of lines , words and characters.

1>cat

2>ls

3>wc

4>grep filename

ANSWER>3

19. Which option of sort allows you to sort data in descending order

1>-r

2>-o

3>-f

4>None of the above

ANSWER>1

20. Which option of ls will allow you to display the files in reverse order

1>r

2>-r

3>R

4>-R</

5>None of the above

ANSWER>2

21. What command do you use to copy files from all sub directories to another directory

1>\$cp -r Dir1 Dir2

2>\$cp -i Dir1 Dir2

3>\$cp -a Dir1 Dir2

4>\$cp -m Dir1 Dir2

ANSWER>1

22. The command used to slice the files horizontally is

1>cut

2>paste

3>head

4>cat

ANSWER>3

23. In the following command

\$paste -d “;” Student1 Student2

1>-d stands for define

2>-d stands for difference

3>-d stands for delimiter

4>None

ANSWER>3

24. Which of the following commands will display the names of hidden files ?

1>ls -h
2>ls -a
3>ls -l
4>ls -x
5>ls -p
ANSWER>2

25. Which of the following commands will display the details of directories only of the current directory ?

1>ls -d
2>ls -l | grep "d\$"
3>ls -l | grep "^d"
4>ls -l | grep "d^"
5>ls -l | grep "\$d"
ANSWER>3

26. Which character must be specified at the end of the command in order to execute that command in the background ?

1>&
2>^
3>%
4>\$
5>#
ANSWER>1

27. If there are 5 files in the current directory and if ls -l | wc -l command is given in the current directory, then the output of this command will be

1>5
2>all the filenames will be displayed
3>6
4>all the lines of all the 5 files.
5>syntax error will be displayed
ANSWER>3

28. Which of the following escape sequences can be used to keep the cursor on the same line after displaying the output with echo command ?

1>\a
2>\b
3>\c
4>\k
5>None of the above
ANSWER>3

29. ln -s <filename><linkfile> will create ----- link to the file

1>soft link
2>symbolic link
3>hard link
4>both 1 and 2
ANSWER>4

30. _____ is the command to append into the contents of a file

1>cat > filename

2>cat >> filename
3>cat < filename
4>cat >>> filename
ANSWER>2

31. State TRUE/FALSE

Using 'mv' command can we rename a file
1>TRUE
2>FALSE
ANSWER>1

32. Which option of “mkdir” command allows you to create sub-directories in one single statement

1>w
2>-w
3>p
4>-p
5>None of the above
ANSWER>4

33. Which of these expressions shows the proper way to add the directory /usr/bin to your path?

1>PATH+=/usr/bin
2>PATH=/usr/bin
3>\$PATH:/usr/bin
4>PATH=\$PATH:/usr/bin
ANSWER>4

34. Which of these commands will set the permissions on file myfile to read and write for the owner, read for the group, and nothing for everyone else?

1>chmod 046 myfile
2>chmod 640 myfile
3>chmod 310 myfile
4>chmod rw r nil myfile
ANSWER>2

35. Which of the following represents an absolute path?

1>..//home/abc.txt
2>bin/cat
3>abcd/
4>/usr/bin/cat
ANSWER>4

36. Which of the following pieces of information is not contained in the passwd file?

1>A user's unencrypted password
2>A user's login name
3>A user's preferred shell program
4>A user's group ID
ANSWER>1

37. Which are the different ways knowing more about the command

1>man
2>help

- 3>information
 - 4>All of the above
- ANSWER>1

38. State TRUE/FALSE: When you log in, the current directory is set to home directory.

- 1>TRUE
 - 2>FALSE
- ANSWER>1

39. When do we use the command, ps -e

- 1>List full process showing the PPID
- 2>Display All processes including user and system processes
- 3>Display Processes of User
- 4>Displaying all Users processes.

ANSWER>2

40. What would happen when a user executes the following command and enters the details as shown below?

- a) \$ cat < test1 <enter>
 - 1>The cat command will take each line of the file test1 as input and display it on VDU.
 - 2>The cat command will take each line of the file test1 as Output and display it on VDU.
 - 3>None of the above
- ANSWER>1
-

DotNET 1

- 1. C# keyword ---- goto
 - 2. which operator can overload --- (==)
 - 3. top .net class frm where everything is driven--- system.obj
 - 4. using custom collection---- CollectionBase
 - 5. view proj and files ----- Solution Explorer
 - 6. Modify prop & control ---- Properties Window
 - 7. .Net collection class---- Hash Table
 - 8. "using" directive ---- referencing namespace
 - 9. behave differently (definition of polymorphism) ----- polymorphism
 - 10. function of CLR --- Compilation of MSIL code into native executable code
 - 11. true when the initial value of x is 5 ---- If $y = -x$ then $x=4$
 - 12. true about overriding ---- All of the above
 - 13. true statement-----The relationship between a class and its base class is an example of an "is-a" relationship
 - 14. statements is true--- A constructor can invoke the constructor of the direct base class
 - 15. Which of the following statements is true? (Select the best option)
 - a. Constructors are not inherited
 - b. Constructors can be overloaded
 - c. Constructors must not have a return type
 - d. The constructor name must match the name of the class
 - e. All of the above
- ans ---- all of the above
- 16. Which class is inherited by all other classes--- Object
 - 17. Arithmetic exception----- System.ArithmeticException

18. throw err when attempt to index an array via an index that is less than zero or outside bounds of the array---- System.IndexOutOfRangeException
19. used to read and write encoded string---- Binary reader and Binary
20. true about handling exceptions(frm knowledge-check-3) ----- all the above
21. valid declarations of a string----- string s1 = "strings rule";
22. legal array declaration in C#(frm knowledge-check-3) ----- all the above
23. manipulate large strings---- string builder
- 24.type of abstraction----- data abstraction
25. derived from existing class --- inheritance
26. exception handling---- all the above
27. pgm o/p is ---- 10 ,20, 10, 50 (all the above)
28. pgm ----- line 13: method two 50
29. system.obj
30. check in check out--- visualsource safe---- all the above
31. tag navigator---- all the above
32. implement interface using ":"

DotNET 2

1. Disconnected mode - SqlDataAdapter
2. Overloading – ALL
3. Architecture – A Comprehensive....
4. savng accnt – after line 7
5. no of Rows affected -- @@Rowaccount
6. Stored procedure – SqlParameter
7. One Instance – Singleton Pattern
8. Database Design – Online Transctn Procsng Systm
9. Return eror condtn – SQLException
10. Drawback of Design Pattern – do not lead to direct code reuse
11. ‘PETER’ – SELECT * FROM Persom WHERE Firsname = ‘PETER’
12. Myselect Query --(mySelectQuery, myConnection, myTrans)
13. c=x/y --- will not compile.....
14. % n_ --- ESCAPE Identifier
15. SqlDataReader in ADO.NET --- ALL
16. Parent-Child ---- ALL
17. Stub --- know the contract design
18. ---- the current date time
19. two modeling elements --- Dependency
- 20. conn string format 4 connectng a sql server database --- `SqlConnection conn = new SqlConnection("Data Source = DatabaseServer; Initial Catalog=Northwind;User ID = YourUserID ; Password =YourPassword");`**
21. inserted identity value -- @@Identity
22. builds XML reader object – ExternalXmlReader
23. Behaves diff --- POLYMORPHISM
24. Design Phase - 1,2 n 3
25. stored procedure 2 access data --- set d comm. Type.....storedProcedure
26. class defer --- factory
27. INSERT , DELETE , UPDATE --- ExecuteNonQuery

28. ---- Class A Class B
 29. ----- Clustered Index
 30. wildcard searches of valid search string value --- LIKE
 31. WHERE....on a fixed list of values ---- IN
 32. reterive single value --- ExecuteScaler
 33. constructor --- It is a method that is invoked.....
 34. WHERE Based on a range of VALUE ---- BETWEEN AND....
 35. PHONE--- 626 362 2222
 36. ----- ORDER BY Salary DESC, job_id ASC
 37. OR...AND - TRUE
 38. Database Design ----- a,c
 39. ----- SELECT * FROM emptable WHERE Lastname = 'Quimby'
 40. Unicode - nchar
-

1. What is the output of the following Command

\$ls -R | wc - l

- 1>The output of ls command is stored in SampleFile
 - 2>The output of wc command is stored in SampleFile
 - 3>**The output of ls is treated as input to wc and the count is stored in SampleFile**
 - 4>The output of ls is treated as input to wc and the count is displayed and stored in SampleFile
- ANSWER>3

2. What is the output of the following command

\$ cat File1>File2>File3

- 1>Copies the contents from File1 to File2 and File3
- 2>It is a wrong command - gives error
- 3>Copies File1 contents to File3
- 4>**Copies File1 to File3 and creates an empty file File2**
- 5>None of them

ANSWER>4

3. What is the command to Print the searched pattern with the line numbers in File1

- 1>\$grep -N "Accenture" File1
- 2>\$grep -nv "Accenture" File1
- 3>\$grep -n File1
- 4>**\$grep -n "Accenture" File1**
- 5>All are correct
- 6>None

ANSWER>4

4. What is the output of the following command

\$rmdir dir1 dir1/dir2/dir3

- 1>deletes dir1 and dir3 directories
 - 2>deletes dir1 directory
 - 3>deletes dir1 dir2 and dir3 directories
 - 4>error**
- ANSWER>4

5. In the vi editor to delete a char

- 1>h
- 2>j
- 3>x**
- 4>k
- 5>l

ANSWER>3

6. To save a file without quitting the vi editor is done using the command

- 1>:q
- 2>:w**
- 3>:w!
- 4>:wq
- 5>:q!

ANSWER>2

7. What is the output the following command

% sort -t " | " +3 -5 Students

- 1>The records will be sorted based on 4th to 5th columns**
- 2>The records will be sorted based on 3rd and 5th columns
- 3>The records will be sorted based on 3rd to 5th columns
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ANSWER>1

8. Unix file system has which of the following file structure

- 1>Tree Structure
- 2>Standard Structure
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- 4>None of the above

ANSWER>3

9. In unix grep-n command displays the

- 1>Line matching the pattern along with its line number**
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ANSWER>1

10. Which of the following represents an absolute path?

1>./home/abc.txt

2>bin/cat

3>abcd/

4>/usr/bin/cat

ANSWER>4

11. Kernel Manage

1>Entire resources of the system

2>Schedules the work done by the CPU

3>Enforces the security scheme

4>a & b

5>b & c

6>a b & c

ANSWER>6

12. Which option of grep displays the count of lines matching the pattern

1>-c

2>-nc

3>-v

4>-lc

5>-ln

ANSWER>1

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2>sort -n <file_name>

3>Write a C/C++ program. Use quick sort.

4>Write a C++ program. Use STL sort algorithm

ANSWER>2

14. You can always return to your home directory by using the command

1>cd /

2>cd \

3>cd HOME

4>cd ..

5>cd

ANSWER>5

15. You are currently placed in “trng” directory placed under the directory “training”. The command to

move the file “file1” from “trng” directory to “data” directory placed under the directory “training” is:

- 1>mv file1 data
- 2>mv file1 data/.
- 3>mv file1/data/.
- 4>mv ../file1/data/.
- 5>mv file1 /data/.

ANSWER>3

16. You are currently placed in “data” directory placed under the directory “training”. The command to copy the file “file1” from “data” directory to “trng” directory placed under the directory “training” is:

- 1>cp file1/trng/.
- 2>cp file1 /trng/.
- 3>cp ../file1/trng/.
- 4>cp file1 /trng/.
- 5>cp file1 trng/.

ANSWER>1

17. who | wc -l

What is the output of the following command if 10 users are connected?

- 1>It will display the list of all the users connected.
- 2>It will display an error in the command
- 3>10
- 4>None of the above

ANSWER>3

18. Which unix command gives the number of lines , words and characters.

- 1>cat
- 2>ls
- 3>wc
- 4>grep filename

ANSWER>3

19. Which option of sort allows you to sort data in descending order

- 1>-r
- 2>-o
- 3>-f
- 4>None of the above

ANSWER>1

20. Which option of ls will allow you to display the files in reverse order

- 1>r
- 2>-r
- 3>R
- 4>-R</
- 5>None of the above

ANSWER>2

21. What command do you use to copy files from all sub directories to another directory

- 1>\$cp -r Dir1 Dir2
- 2>\$cp -i Dir1 Dir2
- 3>\$cp -a Dir1 Dir2
- 4>\$cp -m Dir1 Dir2

ANSWER>1

22. The command used to slice the files horizontally is

- 1>cut
- 2>paste
- 3>head
- 4>cat

ANSWER>3

23. In the following command

\$paste -d “;” Student1 Student2

- 1>-d stands for define
- 2>-d stands for difference
- 3>-d stands for delimiter
- 4>None

ANSWER>3

24. Which of the following commands will display the names of hidden files ?

- 1>ls -h
- 2>ls -a
- 3>ls -l
- 4>ls -x
- 5>ls -p

ANSWER>2

25. Which of the following commands will display the details of directories only of the current directory ?

- 1>ls -d
- 2>ls -l | grep “d\$”
- 3>ls -l | grep “^d”
- 4>ls -l | grep “d^”
- 5>ls -l | grep “\$d”

ANSWER>3

26. Which character must be specified at the end of the command in order to execute that command in the background ?

- 1>&
- 2>^
- 3>%
- 4>\$

5>#

ANSWER>1

27. If there are 5 files in the current directory and if ls -l | wc -l command is given in the current directory, then the output of this command will be

1>5

2>all the filenames will be displayed

3>6

4>all the lines of all the 5 files.

5>syntax error will be displayed

ANSWER>3

28. Which of the following escape sequences can be used to keep the cursor on the same line after displaying the output with echo command ?

1>\a

2>\b

3>\c

4>\k

5>None of the above

ANSWER>3

29. ln -s <filename><linkfile> will create ----- link to the file

1>soft link

2>symbolic link

3>hard link

4>both 1 and 2

ANSWER>4

30. _____ is the command to append into the contents of a file

1>cat > filename

2>cat >> filename

3>cat < filename

4>cat >>> filename

ANSWER>2

31. State TRUE/FALSE

Using 'mv' command can we rename a file

1>TRUE

2>FALSE

ANSWER>1

32. Which option of “mkdir” command allows you to create sub-directories in one single statement

1>w

2>-w

3>p

4>-p

5>None of the above

ANSWER>4

33. Which of these expressions shows the proper way to add the directory /usr/bin to your path?

1>PATH+=/usr/bin

2>PATH=/usr/bin

3>\$PATH:/usr/bin

4>PATH=\$PATH:/usr/bin

ANSWER>4

34. Which of these commands will set the permissions on file textfile to read and write for the owner, read for the group, and nothing for everyone else?

1>chmod 046 textfile

2>chmod 640 textfile

3>chmod 310 textfile

4>chmod rw r nil textfile

ANSWER>2

35. Which of the following represents an absolute path?

1>./home/abc.txt

2>bin/cat

3>abcd/

4>/usr/bin/cat

ANSWER>4

36. Which of the following pieces of information is not contained in the passwd file?

1>A user's unencrypted password

2>A user's login name

3>A user's preferred shell program

4>A user's group ID

ANSWER>1

37. Which are the different ways knowing more about the command

1>man

2>help

3>information

4>All of the above

ANSWER>1

38. State TRUE/FALSE: When you log in, the current directory is set to home directory.

1>TRUE

2>FALSE

ANSWER>1

39. When do we use the command, ps -e

1>List full process showing the PPID

2>Display All processes including user and system processes

3>Dipslay Processes of User

4>Displaying all Users processes.

ANSWER>2

40. What would happen when a user executes the following command and enters the details as shown below?

a) \$ cat < test1 <enter>

1>The cat command will take each line of the file test1 as input and display it on VDU.

2>The cat command will take each line of the file test1 as Output and display it on VDU.

3>None of the above

ANSWER>1

```
1.String s1="abc";
String s2="abc";
String s3=new String(s1)
```

Which of the following will give the result true?

Ans:

```
S1.equals(s2);
S1.equals(s3);
```

2.can the inner class private members access the outer class?

Ans: true

Doubtful

3. greater of 3 nos a=10, b=10, c=10?

Ans c

4 . switch case value of ch2

Ans ch2='4'.

5. keywords study all

Ans strictfp, constant, do, instanceof, implements

6 planets array questions t

String pla[]={"mon","tue","dhfjd","dfdfd"};

For(i=0;i<pla._____;i++) Fill the blank.

ans Length

7. How many method r there in mouseListener

Ans: 5

8.What r the methods of mouseMotionListener

Ans: mouseMoved ,mouseDragged

8. which of these is correct declaration

ans import java.util.vector

9. find the correct one

ans class employee(String nam,Int num,String empname; }

10. array initilisation choose not correct one

options

1. int a[][]=new int[4][4];
2. int [] a []=new int [4] [4];
3. int a[] []=new int [4][];
4. int [] a [] =new int [] [4];

ans :: 4

11. a=6

b=7

x= a++ + b++

System.out.println("The value is="+x+a+b);

Ans: x=13 , a= 7 , b=8;

12. which mtd is used to test whether thread is active or not?

Ans isalive

13. if thread exists or not (is thread is running or not)

ans is alive.

14. to call paint mtd of applet

ans repaint

15. wait can be called in non-synchronised block

ans false.

16. to run threads sequentially?

Ans. Synchronize.

17 . to set color of panel?

p.setBackground(color);

17. extension of awt frame is similar to

ans. JFrame.

18. can overloaded mtds hav diff access specifier?

Ans. Yes , true.

19. for Creating frame in main method which of the following is used

1. Abstract
2. static
3. final
4. no modification are required

ans: 4

20. int values[]={1,2,3,4,1,2,3};

```
try
{
    for(i=values.length-1;i>=0;i++)
    {
        System.out.println(values[i]);
    }
}
Catch(Exception e)
{System.out.println("2");}
Finally
{System.out.println("3");}
```

Ans:: 1 2 3

21. method of keyListener
ans:keyPressed , keyReleased , keyTyped i.e 3 methods

22. choose correct identifiers
checkbox

1. \$int
2. big01LongStringdgdcfhgvjfsdhg
3. 1
4. finalist
- 5.

ans : 1 2 4 5

```
23String s1="Java";
String s2="java";
// comment here
System.out.println("Equal");
```

```
Else
System.out.println(Not equal);
```

Ans:s1.equalsIgnoreCase(s2);

Notes

6 May 2015 7:38 am

Practical scenario (Airport Authority)

Create a table with following attributes

1. PNR
2. Airline name
3. Passenger Name
4. Passenger Address
5. Passenger Age
6. Passenger city
7. Date of journey
8. Airline fare

Stored procedures to be created.

1. _spGetDetails
2. _spGetdetailsByPNR
3. _spUpdatePassengerDetails

Web pages to be created

1. DisplayDetails.aspx

The page should contain a load button. On clicking the load button, AirlineLine name, passenger name, passenger city, airline fare should be displayed in the grid. Edit option should be available for each row. On clicking the edit link, the page should be directed to UpdatePassengerInfo.aspx page. Only passenger information are write only. Rest are read only. Update page has two buttons update and cancel. On clicking on cancel page will be directed to DisplayDetails.aspx page.

Notes

6 May 2015 7:54 am

Bank Customer Update Portal

A user have to come with the update customer banking portal

Database detail:

Customer (CustomerId, FirstName, LastName, Mobile, email)

CustomerID : Auto Incremented from 'Cust001'.

Stored Procedures:

1. GetCustomerDetails(Search by CustomerID)
2. UpdateCustomer
3. DeleteCustomer
4. ValidateCustomerByCustID

UI Part:

CustomerHome.aspx

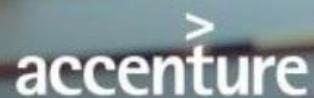
Accepts Customer id (Required Field Validation) and on click of submit button,
It will display valid id or Invalid.

If Customer id is valid it will display all the customer id in grid with two options

Update User

Delete User

UpdateCustomer : On clicking update the page should be redirected to UpdateCustomer.aspx
page where all the details of the customer are filled and editable except for Customer id.



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Question 1 of 40

Topic: .Net , Sub-Topic:WCF

Please select correct sequence for lifecycle of WCF programming:

1. Build a client application.
2. Define the Service Contract.
3. Host the service in an application.
4. Implement the contract.
5. Configure the service.

Choose most appropriate option.

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

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Question 3 of 40

Topic: .Net, Sub-Topic: Inheritance

Consider the below code snippet:

```
class PayRoll
{
    int hrsWorked, Overtime;
    public PayRoll(int hw, int ot)
    {
        hrsWorked = hw;
        Overtime = ot;
    }
    public void PrintWorkDone()
    {
        Console.WriteLine("hrsWorked = {0} \t Overtime = {1}\t", hrsWorked, Overtime);
    }
}
class EmployeeSalary : PayRoll
{
    int LeaveTaken;
    public EmployeeSalary(int HW, int OT, int LTKN)
```

- hrsWorked = 150
- OverTime = 50
- LeaveTaken = 5
- All of the above

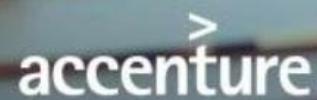
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Question 5 of 40

Topic:.NET4.0 , Sub-Topic:OtherfeatureInCsharp

which one of these concept is used in the below program?

```
Employee emp=new Employee
{
    EmployeeCode=100,
    EmployeeName="Raj",
    EmployeeAge=25
};
```

Choose most appropriate option.

- Extension Methods
- Collection Initializers
- Anonymous types
- Object Initializers

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Question 6 of 40

Topic:.Net, Sub-Topic:Arrays

Consider the below code segment:

```
public static void Main()
{
    int[][] arr=new int[3][];
    arr[0] = new int[] { 1, 2 };
    arr[1] = new int[] { 3, 4, 5 };
    arr[2] = new int[] { 6, 7, 8, 6 };
    for (int i = 0; i < 2; i++)
    {
        for (int x = 0; x <= arr[i].Length-1; x++)
        {
            Console.Write(arr[i][x]);
        }
        Console.WriteLine(" ");
    }
    Console.Read();
}
```

12 345 6786

12 345

12 345 678

12 34 67

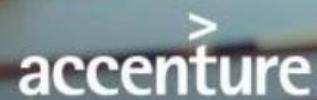
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Question 7 of 40

Topic:.NET , Sub-Topic:Secure coding

_____ attacks exploit vulnerabilities in Web page validation by injecting client-side script code.

Choose most appropriate option.

- Java Script
- SQL Injection
- C# Code
- Cross-site scripting (XSS)

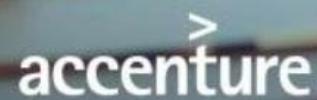
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Question 8 of 40

Topic:.NET , Sub-Topic: C#_Features

If str1 and str2 are references to two strings, then which of the following is the correct way to compare the two references?

Choose most appropriate option

- strcmp(str1, str2)
- str1 == str2
- str1 is str2
- str1 = str2
- str1.Equals(str2)

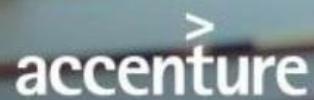
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Question 9 of 40

Topic:.NET Subtopic:Exception Handling

Sudhir wanted to evaluate scenarios where he might encounter the InvalidCastException. He is expecting this exception from the following code:

```
int intvar = 2;  
object objvar = (object)intvar;  
short shortvar = (short)objvar;
```

Do you think he will get the expected Exception type?

Choose most appropriate option

Yes

No

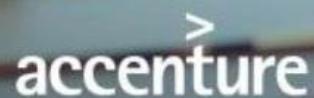
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Question 10 of 40

Topic: .NET, Sub-Topic : LanguageFundamentals

Given the following code:

```
class SwitchExample
{
    public static void Method1() { Console.WriteLine("in Method1"); }
    public static void Method2() { Console.WriteLine("in Method2"); }
    public static void Method3() { Console.WriteLine("in Method3"); }
    public static void Method4() { Console.WriteLine("in Method4"); }
    public static void MethodSwitch(int x)
    {
        switch(x)
        {
            case 1: Method1();
            break;
            case 2: Method2();
            break;
            case 3: Method3();
        }
    }
}
```

- for(int i=1;i<=2;i++) MethodSwitch(i);
- for(int i=1;i<=5;i++) MethodSwitch(i);
- for(int i=1;i<=4;i++) MethodSwitch(i);
- for(int i=1;i<=3;i++) MethodSwitch(i);

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Question 13 of 40

Topic:.NET, Sub-Topic:OperatorOverloading

_____ allows you to index a class, struct or interface in the same way as array.

Fill in the blank with an appropriate option.

- Object Initializer
- Delegate
- Indexer
- Property

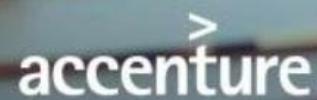
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Question 14 of 40

Topic: .NET, Sub-Topic: Collections

What is the .NET collection class that allows an element to be accessed using a unique key?

Choose most appropriate option.

- ArrayList
- StringCollection
- Stack
- HashTable



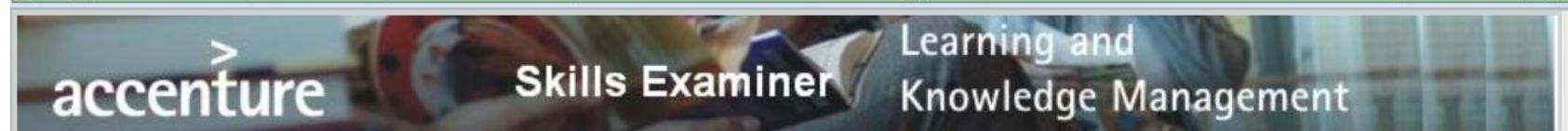
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Question 15 of 40

Topic:.Net4.0, Sub-Topic:SqlServer2008

Which statement finds the rows in the Employee table that do not have Manager assigned?

[Click on hyperlink to view the EMP Table.](#)

Choose most appropriate option.

- SELECT EMPNO,ENAME,MGR FROM EMP WHERE MGR IS NULL;
 - SELECT EMPNO,ENAME,MGR FROM EMP WHERE MGR = NULL;
 - SELECT EMPNO,ENAME,MGR FROM EMP WHERE MGR CONTAINS NULL;
 - SELECT EMPNO,ENAME,MGR FROM EMP WHERE MGR == NULL;

EMPNO	ENAME	MGR
7369	SMITH	7902
7499	ALLEN	7698
7521	WARD	7698
7566	JONES	7839
7654	MARTIN	7698
7698	BLAKE	7839
7782	CLARK	7839
7788	SCOTT	7566
7839	KING	
7844	TURNER	7698
7876	ADAMS	7788
7900	JAMES	7698
7902	FORD	7566
7934	MILLER	7782

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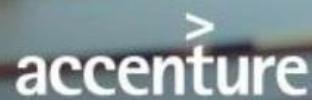
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Question 15 of 40

Topic: .Net4.0, Sub-

Which statement fin

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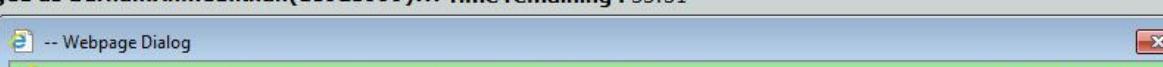
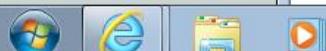
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- SELECT EMPNO
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Question 16 of 40

Topic:.NET Subtopic: Arrays

After understanding following code snippet, Sudhir is to determine the output of the following code:

```
int[] myarray = new int[3] {20,19,21};  
int[] copyarray= new int[3];  
Array.Copy(myarray, 0,copyarray,1, 1);  
Console.WriteLine("{0}-{1}-{2}", copyarray[0], copyarray[1], copyarray[2]);
```

According to you, what should be the output?

Choose most appropriate option

- 0-20-0
- 20-19-0
- 20-19-21
- None of the above, use of unassigned array index results in error.

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Question 17 of 40

Topic:.Net , Sub-Topic:Multithreading

For long running tasks it is preferable to create your own threads using _____ delegate.

Choose most appropriate option.

- ThreadPulse
- ThreadCreate
- ThreadPool
- ThreadStart

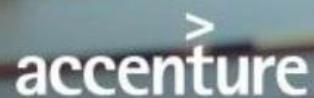
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Question 19 of 40

Topic: .NET Subtopic:Exception Handling

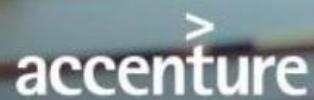
In an interview, Sujit was asked to evaluate following code and determine the output.

```
class Program
{
    static Program()
    {
        int number = 100;
        int denominator = int.Parse("0");
        int result = number / denominator;
        Console.WriteLine(result);
    }

    class MyClass
    {
        static void Main()
        {
```

- System.TypeInitializationException
- There won't be any exception, result would get printed.
- System.InvalidCastException
- System.DivideByZeroException

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Question 20 of 40

Topic:.NET,Subtopic:WPF

Which of the following options are the features of WPF.

Choose three appropriate options.

- Resolution dependence
- Rich Composition
- Highly customizable
- Separation of appearance and behavior

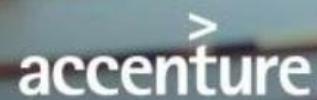
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Question 21 of 40

Topic:.NET , Subtopic:OtherFeaturesInCSharp

Poorva has created following class:

```
public class Employee
{
    public int EmployeeCode{ get; set;}
    public string EmployeeName{ get; set;}
    public int EmployeeAge{ get; set;}
}
```

Please select correct code for initializing an object by using Object Initializers.

Choose most appropriate option

- Employee emp=new Employee (EmployeeCode=111; EmployeeName="Raghav"; EmployeeAge=26;);
- Employee emp=new Employee { EmployeeCode=111, EmployeeName="Raghav", EmployeeAge=26 };
- Employee emp=new Employee() { EmployeeCode=111; EmployeeName="Raghav"; EmployeeAge=26; }
- Employee emp=new Employee() (EmployeeCode=111; EmployeeName="Raghav", EmployeeAge=26;);



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Question 23 of 40

Topic:.NET, Sub-Topic:LINQ

Are the following statements true or false?

Statement 1: LINQ provides a unified programming model to different data domains for data management.

Statement 2: Language integrated query is set of framework features for structured type-safe queries.

Choose most appropriate option.

- Both statements are true.
- Both statements are false.
- Statement 2 is false and statement 1 is true.
- Statement 1 is false and statement 2 is true

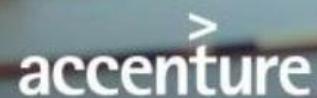
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Question 25 of 40

Topic: .NET, Sub-Topic : LanguageFundamentals

Identify the output for the program below –

```
class ExampleDemo
{
    public static void Main(string [] args)
    {
        Console.Writeline("River of \\n dreams");
        Console.Writeline("So far \\n so good");
    }
}
```

Choose most appropriate option.

- River of \\n dreams So far \\n so good -----> will display in different line.
- River of dreams
- River of \\dreams \\ So far so good -----> will display in different line.
- River of dreams So far so good -----> will display in different line.

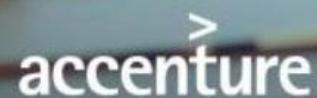
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Question 25 of 40

Topic: .NET, Sub-Topic : LanguageFundamentals

Identify the output for the program below –

```
class ExampleDemo
{
    public static void Main(string [] args)
    {
        Console.Writeline("River of \\n dreams");
        Console.Writeline("So far \\n so good");
    }
}
```

Choose most appropriate option.

River of \\n dreams So far \\n so good -----> will display in different line.

River of dreams

River of \\dreams \\ So far so good -----> will display in different line.

River of dreams So far so good -----> will display in different line.

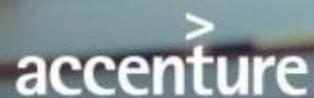
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Question 26 of 40

Topic: .Net, Sub-Topic:Delegates and Events

Consider the following code:

```
using System;
public class A
{
    string name;
    public A(string name)
    {
        this.name = name;
    }
    public void Display(string message)
    {
        Console.WriteLine("{0} {1}", name, message);
    }
}
class MainClass
{
```

- Compilation Error
- boy
- boy apple
- apple boy

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Question 27 of 40

Topic:.NET;Subtopic:WCF

Consider the following statements and identify the WCF program

1. These are programs that consume the services
2. They are normally the ones that initiate the messaging to the service.

Choose most appropriate option

- Message
- Client
- Intermediaries
- None of the above

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Question 28 of 40

Topic.:NET4.0 ;Subtopic:LINQ

Consider the following code and identify the statements which are true?

```
using System;
using System.Linq;
```

```
class OrderDemo
{
```

```
    static void Main()
    {
```

```
        string[] englishletters = { "d", "c", "a", "b" };
```

```
        var sorted = from englishletter in englishletters
```

```
                    orderby englishletter
                    select englishletter;
```

```
        foreach (string value in sorted)
```

sorted is an IEnumerable <string>

The foreach loop is responsible for sorting the englishletters

englishletters is an unsorted array

The output will be in the descending order

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Question 29 of 40

Topic: .NET4.0, Sub-Topic:SqlServer2008

Which of the following substantiates the use of stored procedure?

Choose most appropriate option.

- The number of requests between the server and the client is reduced.
- Stored procedures accept parameters.
- The execution plan is stored in the cache after it is executed the first time.
- You can bypass permission checking on stored procedure.

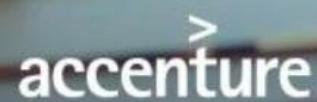
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Question 30 of 40

Topic:.NET, Sub-Topic:Introduction to .NET framework

GAC is a machine-wide code cache that is used to store assemblies that are created to be shared by multiple applications. An assembly can be added to the GAC by using.

Choose most appropriate option.

- gacmgr.exe
- Sn.exe
- Gacutil.exe
- al.exe

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Question 32 of 40

Topic:.NET, Sub-Topic:Parallel programming

Identify the below option for implementing for loop in parallel program.

Choose most appropriate option.

- Foreach 
- For.Parallel
- for
- Parallel.For

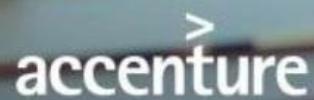
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Question 34 of 40

Topic:.NET, Sub-Topic:CoreUtilities

Which namespace contains classes that can be used to define culture-related information?

Choose most appropriate option.

- System.Globalization
- System.Localization
- A custom namespace with custom functions written to handle localization
- None as it is available by default

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Question 36 of 40

Topic: .Net, Sub-Topic: Threading

Consider the following statements:

Statement1-Thread.Join(): This method blocks the calling thread until the thread terminates.
Statement2-task.Wait(): Task can wait for one or more tasks to end using Wait

Choose most appropriate option.

- Statement1 is True Statement2 is True
- Statement1 is False Statement2 is False
- Statement1 is True Statement2 is False
- Statement1 is False Statement2 is True

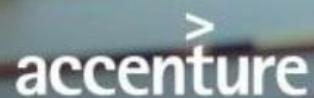
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Question 38 of 40

Topic:.NET, Sub-Topic:MethodCalling

Consider the following program:

```
using System;
class OptionalExample
{
    static void Method(int x=25)
    {
        Console.WriteLine("value={0}",n);
    }
    static void Main()
    {

        Method();
    }
}
```

- Value= 25
- Value= 0
- Value= null
- None of the above

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Question 40 of 40

Topic:.NET, Subtopic: Generics

```
namespace TEST
{
    public class TestFunc
    {
        public void TestSub<M>(M arg)
        {
            Console.Write(arg);
        }
    }
    class MyProgram
    {
        static void Main(string[] args)
        {
            TestFunc b = new TestFunc();
            b.TestSub("Test ");
            b.TestSub(4.6f);
```

- Test 46
- Test 4.6
- 46
- Test 4.6f

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Question 39 of 40

Topic:.NET4.0 ; Subtopic:Exception Handling

Dharmendra was trying following code:

```
string[] myArray = { "MDC", "DDC", "PDC", "CDC", "BDC", "HDC" };
object[] myArrayId = myArray;
myArrayId[0] = 5;
Console.WriteLine("{0} ", myArrayId[0]);
```

According to you, which of the following exception will he get?

Choose most appropriate option

- System.InvalidCastException
- System.IndexOutOfRangeException
- There won't be any exception
- System.ArrayTypeMismatchException

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Question 35 of 40

Topic: .NET, Sub-Topic : Delegates and Events

Which of the following is true about Events?

Choose three appropriate options.

- Option-A: Events are declared using delegates.
- Option-B: An event is a way for a class to allow clients to give delegates to methods that should be called when the event occurs.
- Option-C: An event is a way for a class to provide notifications to clients of that class when some interesting thing happens to an object
- Option-D: Reference a method only if the signature of the method exactly

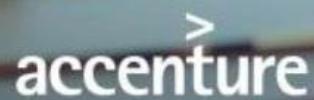
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Question 31 of 40

```
Console.WriteLine("boy");
return a;
}

public static void Main()
{
    myDelegate del1 = new myDelegate(str1);
    string str;
    str = del1("cat");
    del1 = new myDelegate(str2);
    str = del1("dog");
    Console.Read();
}
```

What will be the output of above code?

Choose most appropriate option.

- apple boy
- Compilation Error
- apple boy cat dog
- cat dog

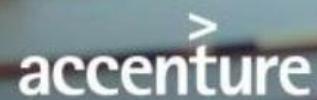
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Question 31 of 40

```
static string str2(string a)
{
    Console.Write("boy");
    return a;
}

public static void Main()
{
    myDelegate del1 = new myDelegate(str1);
    string str;
    str = del1("cat");
    del1 = new myDelegate(str2);
    str = del1("dog");
    Console.Read();
}
```

apple boy
 Compilation Error
 apple boy cat dog
 cat dog

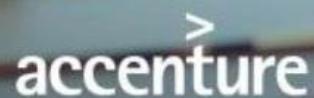
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Question 16 of 40

Topic: .NET Subtopic: Arrays

After understanding following code snippet, Sudhir is to determine the output of the following code:

```
int[] myarray = new int[3] {20,19,21};  
int[] copyarray= new int[3];  
Array.Copy(myarray, 0,copyarray,1, 1);  
Console.WriteLine("{0}-{1}-{2}", copyarray[0], copyarray[1], copyarray[2]);
```

According to you, what should be the output?

Choose most appropriate option

- 0-20-0
- 20-19-0
- 20-19-21
- None of the above, use of unassigned array index results in error.

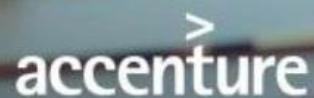
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Question 16 of 40

Topic: .NET Subtopic: Arrays

After understanding following code snippet, Sudhir is to determine the output of the following code:

```
int[] myarray = new int[3] {20,19,21};  
int[] copyarray= new int[3];  
Array.Copy(myarray, 0,copyarray,1, 1);  
Console.WriteLine("{0}-{1}-{2}", copyarray[0], copyarray[1], copyarray[2]);
```

According to you, what should be the output?

Choose most appropriate option

- 0-20-0
- 20-19-0
- 20-19-21
- None of the above, use of unassigned array index results in error.

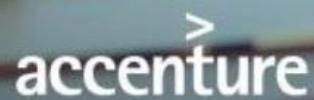
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Question 16 of 40

Topic: .NET Subtopic: Arrays

After understanding following code snippet, Sudhir is to determine the output of the following code:

```
int[] myarray = new int[3] {20,19,21};  
int[] copyarray= new int[3];  
Array.Copy(myarray, 0,copyarray,1, 1);  
Console.WriteLine("{0}-{1}-{2}", copyarray[0], copyarray[1], copyarray[2]);
```

According to you, what should be the output?

Choose most appropriate option

- 0-20-0
- 20-19-0
- 20-19-21
- None of the above, use of unassigned array index results in error.

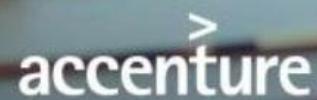
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Question 14 of 40

Topic: .NET, Sub-Topic: Collections

What is the .NET collection class that allows an element to be accessed using a unique key?

Choose most appropriate option.

- ArrayList
- StringCollection
- Stack
- HashTable

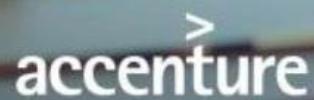
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Question 5 of 40

Topic: .NET4.0 , Sub-Topic: OtherfeatureInCsharp

which one of these concept is used in the below program?

```
Employee emp=new Employee
{
    EmployeeCode=100,
    EmployeeName="Raj",
    EmployeeAge=25
};
```

Choose most appropriate option.

- Collection Initializers
- Object Initializers
- Anonymous types
- Extension Methods

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Question 11 of 40

Topic:.NET, Subtopic:Polymorphism

Raju is developer he has created the class as follows:

```
class A
{
    public virtual void Hello()
    {
        Console.WriteLine("Hello All From Base.....");
    }
}
class B:A
{
    public override void Hello()
    {
        Console.WriteLine("Hello All From Derived.....");
    }
}
```

- Raju can define the method as public sealed override Hello(){}
 Raju can define the method as public new override Hello(){}
 Raju cannot make the method as non overridable, once it is declared as virtual in the Base class.
 Raju can define the method as public lock override Hello(){}

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Question 12 of 40

```
using System;
namespace ConsoleApplication3
{
    class StringDemo
    {
        public static void Main()
        {

            String str="AAA",s1="AA";
            StringBuilder stringB=new StringBuilder(s1);
            Console.WriteLine(stringB.Equals(str)+", " + str.Equals(s1));
            Console.ReadLine();
        }
    }
}
```

What will be the output of above code?

- False,True
- False,False
- True,False
- True,True

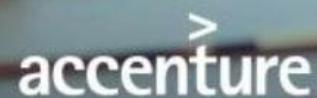
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Question 15 of 40

Topic: .Net4.0, Sub-Topic:SqlServer2008

Which statement finds the rows in the Employee table that do not have Manager?

Click on hyperlink to view the EMP Table.

Choose most appropriate option.

<<Click here>>

to see original Image size

- SELECT EMPNO,ENAME,MGR FROM EMP WHERE MGR = NULL;
- SELECT EMPNO,ENAME,MGR FROM EMP WHERE MGR == NULL;
- SELECT EMPNO,ENAME,MGR FROM EMP WHERE MGR CONTAINS NULL;
- SELECT EMPNO,ENAME,MGR FROM EMP WHERE MGR IS NULL;

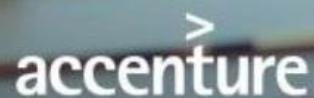
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Question 12 of 40

Topic: .Net, Sub-Topic:CoreUtilities

Consider the following code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

namespace ConsoleApplication3
{
    class StringDemo
    {
        public static void Main()
        {

            String str="AAA",s1="AA";
            StringBuilder stringB=new StringBuilder(s1);
            Console.WriteLine(stringB.Equals(str)+", " + str.Equals(s1));
        }
    }
}
```

- True,True
- False,False
- False,True
- True,False

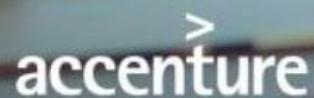
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Question 12 of 40

Topic: .Net, Sub-Topic:CoreUtilities

Consider the following code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

namespace ConsoleApplication3
{
    class StringDemo
    {
        public static void Main()
        {

            String str="AAA",s1="AA";
            StringBuilder stringB=new StringBuilder(s1);
            Console.WriteLine(stringB.Equals(str)+", " + str.Equals(s1));
        }
    }
}
```

- True,True
- False,False
- False,True
- True,False

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Question 12 of 40

Topic: .Net, Sub-Topic:CoreUtilities

Consider the following code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

namespace ConsoleApplication3
{
    class StringDemo
    {
        public static void Main()
        {

            String str="AAA",s1="AA";
            StringBuilder stringB=new StringBuilder(s1);
            Console.WriteLine(stringB.Equals(str)+", " + str.Equals(s1));
        }
    }
}
```

- True,True
- False,False
- False,True
- True,False

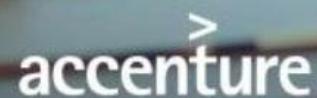
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Question 11 of 40

```
public virtual void Hello()
{
    Console.WriteLine("Hello All From Base.....");
}
class B:A
{
    public override void Hello()
    {
        Console.WriteLine("Hello All From Derived.....");
    }
}
```

Since he is a developer and he does not want others to override the method(Hello) by inheriting into some other class. So what is your suggestion for Raju to make the method as non overridable.

Choose most appropriate option

- Raju cannot make the method as non overridable, once it is declared as virtual in the Base class.
- Raju can define the method as public lock override Hello()
- Raju can define the method as public new override Hello()
- Raju can define the method as public sealed override Hello()

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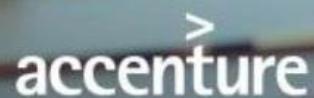
```
public virtual void Hello()
{
    Console.WriteLine("Hello All From Base.....");
}
class B:A
{
    public override void Hello()
    {
        Console.WriteLine("Hello All From Derived.....");
    }
}
```

Since he is a developer and he does not want others to override the method(Hello) by inheriting into some other class. So what is your suggestion for Raju to make the method as non overridable.

Choose most appropriate option

- Raju cannot make the method as non overridable, once it is declared as virtual in the Base class.
- Raju can define the method as public lock override Hello()
- Raju can define the method as public new override Hello()
- Raju can define the method as public sealed override Hello()

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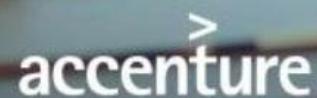
Question 11 of 40

```
class A
{
    public virtual void Hello()
    {
        Console.WriteLine("Hello All From Base.....");
    }
}
class B:A
{
    public override void Hello()
    {
        Console.WriteLine("Hello All From Derived.....");
    }
}
```

Since he is a developer and he does not want others to override the method(Hello) by inheriting into some other class. So what is your suggestion for Raju to make the method as

- Raju cannot make the method as non overridable, once it is declared as virtual in the Base class.
- Raju can define the method as public lock override Hello()
- Raju can define the method as public new override Hello()
- Raju can define the method as public sealed override Hello()

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Question 11 of 40

```
public virtual void Hello()
{
    Console.WriteLine("Hello All From Base.....");
}
class B:A
{
    public override void Hello()
    {
        Console.WriteLine("Hello All From Derived.....");
    }
}
```

Since he is a developer and he does not want others to override the method(Hello) by inheriting into some other class. So what is your suggestion for Raju to make the method as non overridable.

Choose most appropriate option

- Raju cannot make the method as non overridable, once it is declared as virtual in the Base class.
- Raju can define the method as public lock override Hello()
- Raju can define the method as public new override Hello()
- Raju can define the method as public sealed override Hello()

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Question 12 of 40

```
using System;
namespace ConsoleApplication3
{
    class StringDemo
    {
        public static void Main()
        {

            String str="AAA",s1="AA";
            StringBuilder stringB=new StringBuilder(s1);
            Console.WriteLine(stringB.Equals(str)+", " + str.Equals(s1));
            Console.ReadLine();
        }
    }
}
```

What will be the output of above code?

- True,True
- False,False
- False,True
- True,False

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Question 11 of 40

Topic: .NET, Subtopic: Polymorphism

Raju is developer he has created the class as follows:

```
class A
{
    public virtual void Hello()
    {
        Console.WriteLine("Hello All From Base.....");
    }
}
class B:A
{
    public override void Hello()
    {
        Console.WriteLine("Hello All From Derived.....");
    }
}
```

- Raju can define the method as public lock override Hello()
- Raju cannot make the method as non overridable, once it is declared as virtual in the Base class.
- Raju can define the method as public sealed override Hello()
- Raju can define the method as public new override Hello()

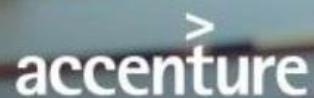
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Question 12 of 40

```
using System;
namespace ConsoleApplication3
{
    class StringDemo
    {
        public static void Main()
        {

            String str="AAA",s1="AA";
            StringBuilder stringB=new StringBuilder(s1);
            Console.WriteLine(stringB.Equals(str)+", " + str.Equals(s1));
            Console.ReadLine();
        }
    }
}
```

What will be the output of above code?

- True,True
- False,True
- False,False
- True,False

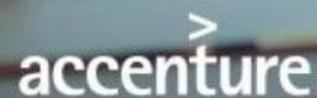
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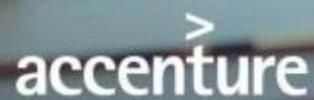
Question 28 of 40

```
{  
    static void Main()  
    {  
  
        string[] englishletters = { "d", "c", "a", "b" };  
  
        var sorted = from englishletter in englishletters  
                    orderby englishletter  
                    select englishletter;  
  
        foreach (string value in sorted)  
        {  
            Console.WriteLine(value);  
        }  
    }  
}
```

Choose two appropriate options.

- The foreach loop is responsible for sorting the englishletters
- The output will be in the descending order
- sorted is an IEnumerable <string>
- englishletters is an unsorted array

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Question 9 of 40

Topic: .NET Subtopic:Exception Handling

Sudhir wanted to evaluate scenarios where he might encounter the InvalidCastException. He is expecting this exception from the following code:

```
int intvar = 2;  
object objvar = (object)intvar;  
short shortvar = (short)objvar;  
Do you think he will get the expected Exception type?
```

Choose most appropriate option

- No
 Yes

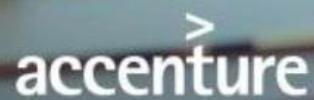
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Question 9 of 40

Topic: .NET Subtopic:Exception Handling

Sudhir wanted to evaluate scenarios where he might encounter the InvalidCastException. He is expecting this exception from the following code:

```
int intvar = 2;  
object objvar = (object)intvar;  
short shortvar = (short)objvar;  
Do you think he will get the expected Exception type?
```

Choose most appropriate option

No

Yes

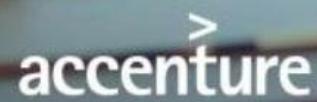
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Question 33 of 40

Topic: .Net , Subtopic: Team Foundation Server 2010

Multiple workspaces can be maintained for a single project in the source control.

State TRUE or FALSE.

- FALSE
 TRUE

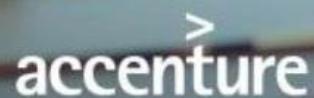
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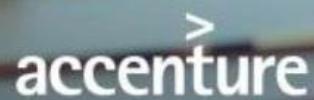
Question 28 of 40

```
{  
    static void Main()  
    {  
  
        string[] englishletters = { "d", "c", "a", "b" };  
  
        var sorted = from englishletter in englishletters  
                    orderby englishletter  
                    select englishletter;  
  
        foreach (string value in sorted)  
        {  
            Console.WriteLine(value);  
        }  
    }  
}
```

Choose two appropriate options.

- englishletters is an unsorted array
- sorted is an IEnumerable <string>
- The foreach loop is responsible for sorting the englishletters
- The output will be in the descending order

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Question 26 of 40

```
{  
    this.name = name;  
}  
public void Display(string message)  
{  
    Console.WriteLine("{0} {1}", name, message);  
}  
}  
class MainClass  
{  
    delegate void myDelegate(string message);  
    public static void Main()  
    {  
        A obj1= new A("boy");  
        myDelegate obj2 = new myDelegate(obj1.Display);  
        obj2("apple");  
        Console.Read();  
    }  
}
```

- Compilation Error
- boy
- boy apple
- apple boy

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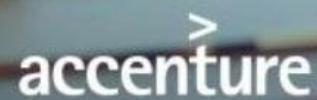
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Question 26 of 40

```
string name;
public A(string name)
{
    this.name = name;
}
public void Display(string message)
{
    Console.WriteLine("{0} {1}", name, message);
}
class MainClass
{
    delegate void myDelegate(string message);
    public static void Main()
    {
        A obj1= new A("boy");
        myDelegate obj2 = new myDelegate(obj1.Display);
        obj2("apple");
    }
}
```

- Compilation Error
- boy
- boy apple
- apple boy

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Question 23 of 40

Topic:.NET, Sub-Topic:LINQ

Are the following statements true or false?

Statement 1: LINQ provides a unified programming model to different data domains for data management.

Statement 2: Language integrated query is set of framework features for structured type-safe queries.

Choose most appropriate option.

- Statement 1 is false and statement 2 is true
- Both statements are true.
- Statement 2 is false and statement 1 is true.
- Both statements are false.

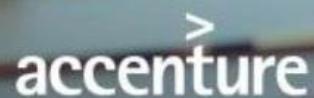
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Question 19 of 40

Topic: .NET Subtopic:Exception Handling

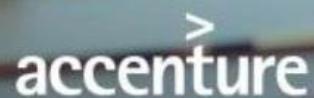
In an interview, Sujit was asked to evaluate following code and determine the output.

```
class Program
{
    static Program()
    {
        int number = 100;
        int denominator = int.Parse("0");
        int result = number / denominator;
        Console.WriteLine(result);
    }

    class MyClass
    {
        static void Main()
        {
```

- System.InvalidCastException
- System.DivideByZeroException
- There won't be any exception, result would get printed.
- System.TypeInitializationException

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Question 18 of 40

Topic: .Net, Sub-Topic:Collection

Below is the Collection Interface list with their meaning in unorganized order.

- 1-Purpose of IDictionary:Exposes a method that compares two objects.
- 2-Purpose of IList:Defines size, enumerators and synchronization methods for all collections.
- 3-Purpose of IComparer:Represents a collection of key-and-value pairs.
- 4-Purpose of ICollection:Represents a collection of objects that can be individually accessed by index.

Choose the best option to organize the above collection Interface and its meaning.

Choose most appropriate option.

- 1-IDictionary: Represents a collection of key-and-value pairs. 2-IList:Defines size, enumerators and synchronization methods for all collections. 3-IComparer: Represents a collection of objects that can be individually accessed by index. 4-ICollection: Exposes a method that compares two objects.
- 1.ICollection:Defines size, enumerators and synchronization methods for all collections. 2.IComparer:Exposes a method that compares two objects.
3.IDictionary:Represents a collection of key-and-value pairs. 4_IList:Represents a collection of objects that can be individually accessed by index.
- 1-IDictionary:Defines size, enumerators and synchronization methods for all collections. 2-IList:Exposes a method that compares two objects. 3-IComparer:Represents a collection of objects that can be individually accessed by index. 4-ICollection:Represents a collection of key-and-value pairs.
- 1-IDictionary:Represents a collection of key-and-value pairs. 2-IList:Exposes a method that compares two objects. 3-IComparer:Represents a collection of objects that can be individually accessed by index. 4-ICollection: Defines size, enumerators and synchronization methods for all collections.

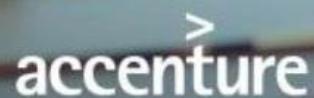
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Question 18 of 40

Topic: .Net, Sub-Topic:Collection

Below is the Collection Interface list with their meaning in unorganized order.

- 1-Purpose of IDictionary:Exposes a method that compares two objects.
- 2-Purpose of IList:Defines size, enumerators and synchronization methods for all collections.
- 3-Purpose of IComparer:Represents a collection of key-and-value pairs.
- 4-Purpose of ICollection:Represents a collection of objects that can be individually accessed by index.

Choose the best option to organize the above collection Interface and its meaning.

Choose most appropriate option.

- 1-IDictionary: Represents a collection of key-and-value pairs. 2-IList:Defines size, enumerators and synchronization methods for all collections. 3-IComparer: Represents a collection of objects that can be individually accessed by index. 4-ICollection: Exposes a method that compares two objects.
- 1.ICollection:Defines size, enumerators and synchronization methods for all collections. 2.IComparer:Exposes a method that compares two objects.
3.IDictionary:Represents a collection of key-and-value pairs. 4_IList:Represents a collection of objects that can be individually accessed by index.
- 1-IDictionary:Defines size, enumerators and synchronization methods for all collections. 2-Ilist:Exposes a method that compares two objects. 3-IComparer:Represents a collection of objects that can be individually accessed by index. 4-ICollection:Represents a collection of key-and-value pairs.
- 1-IDictionary:Represents a collection of key-and-value pairs. 2-Ilist:Exposes a method that compares two objects. 3-IComparer:Represents a collection of objects that can be individually accessed by index. 4-ICollection: Defines size, enumerators and synchronization methods for all collections.

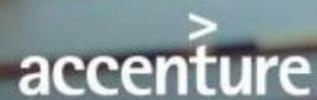
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Question 17 of 40

Topic:.Net , Sub-Topic:Multithreading

For long running tasks it is preferable to create your own threads using _____ delegate.

Choose most appropriate option.

- ThreadPulse
- ThreadPool
- ThreadCreate
- ThreadStart

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Question 16 of 40

Topic: .NET Subtopic: Arrays

After understanding following code snippet, Sudhir is to determine the output of the following code:

```
int[] myarray = new int[3] {20,19,21};  
int[] copyarray= new int[3];  
Array.Copy(myarray, 0,copyarray,1, 1);  
Console.WriteLine("{0}-{1}-{2}", copyarray[0], copyarray[1], copyarray[2]);
```

According to you, what should be the output?

Choose most appropriate option

- 0-20-0
- 20-19-0
- 20-19-21
- None of the above, use of unassigned array index results in error.

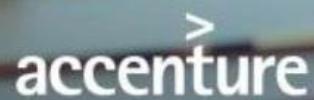
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Question 9 of 40

Topic: .NET Subtopic:Exception Handling

Sudhir wanted to evaluate scenarios where he might encounter the InvalidCastException. He is expecting this exception from the following code:

```
int intvar = 2;  
object objvar = (object)intvar;  
short shortvar = (short)objvar;  
Do you think he will get the expected Exception type?
```

Choose most appropriate option

No

Yes

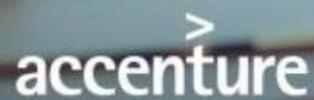
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Question 8 of 40

Topic: .NET , Sub-Topic: C#_Features

If str1 and str2 are references to two strings, then which of the following is the correct way to compare the two references?

Choose most appropriate option

- strcmp(str1, str2)
- str1 == str2
- str1 = str2
- str1 is str2
- str1.Equals(str2)

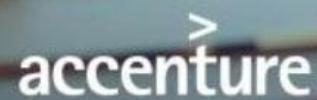
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Question 2 of 40

Topic: .NET ; Subtopic: Introduction to Design Documents

Zeenat needs to create a UML Diagram that can depict the user requirements, scenarios in which your system or application interacts with people, organizations or external systems. Which diagram should she be using?

Choose most appropriate option

- Object Diagram
- Sequence Diagram
- Class Diagram
- Use Case Diagram

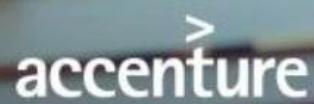
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Question 33 of 40

Topic: .Net , Subtopic: Team Foundation Server 2010

Multiple workspaces can be maintained for a single project in the source control.

State TRUE or FALSE.

- TRUE
 FALSE

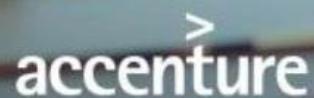
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Question 28 of 40

Topic.:NET4.0 ;Subtopic:LINQ

Consider the following code and identify the statements which are true?

```
using System;
using System.Linq;
```

```
class OrderDemo
{
    static void Main()
    {

        string[] englishletters = { "d", "c", "a", "b" };

        var sorted = from englishletter in englishletters
                    orderby englishletter
                    select englishletter;

        foreach (string value in sorted)
```

- The output will be in the descending order
- The foreach loop is responsible for sorting the englishletters
- sorted is an IEnumerable <string>
- englishletters is an unsorted array

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Question 26 of 40

Topic: .Net, Sub-Topic:Delegates and Events

Consider the following code:

```
using System;
public class A
{
    string name;
    public A(string name)
    {
        this.name = name;
    }
    public void Display(string message)
    {
        Console.WriteLine("{0} {1}", name, message);
    }
}
class MainClass
{
```

- Compilation Error
- apple boy
- boy apple
- boy

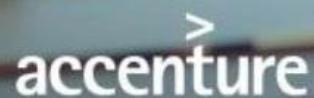
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Question 15 of 40

Topic: .Net4.0, Sub-Topic:SqlServer2008

Which statement finds the rows in the Employee table that do not have Manager?

Click on hyperlink to view the EMP Table.

Choose most appropriate option.

<<Click here>>

to see original Image size

- SELECT EMPNO,ENAME,MGR FROM EMP WHERE MGR = NULL;
- SELECT EMPNO,ENAME,MGR FROM EMP WHERE MGR == NULL;
- SELECT EMPNO,ENAME,MGR FROM EMP WHERE MGR CONTAINS NULL;
- SELECT EMPNO,ENAME,MGR FROM EMP WHERE MGR IS NULL;

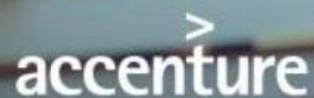
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Question 10 of 40

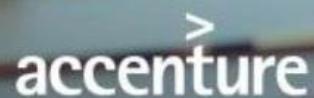
Topic: .NET, Sub-Topic : LanguageFundamentals

Given the following code:

```
class SwitchExample
{
    public static void Method1() { Console.WriteLine("in Method1"); }
    public static void Method2() { Console.WriteLine("in Method2"); }
    public static void Method3() { Console.WriteLine("in Method3"); }
    public static void Method4() { Console.WriteLine("in Method4"); }
    public static void MethodSwitch(int x)
    {
        switch(x)
        {
            case 1: Method1();
            break;
            case 2: Method2();
            break;
            case 3: Method3();
        }
    }
}
```

- for(int i=1;i<=2;j++) MethodSwitch(i);
- for(int i=1;i<=5;j++) MethodSwitch(i);
- for(int i=1;i<=4;j++) MethodSwitch(i);
- for(int i=1;i<=3;i++) MethodSwitch(i);

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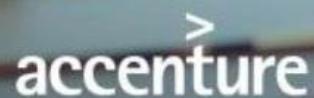
Topic: .NET, Sub-Topic : LanguageFundamentals

Given the following code:

```
class SwitchExample
{
    public static void Method1() { Console.WriteLine("in Method1"); }
    public static void Method2() { Console.WriteLine("in Method2"); }
    public static void Method3() { Console.WriteLine("in Method3"); }
    public static void Method4() { Console.WriteLine("in Method4"); }
    public static void MethodSwitch(int x)
    {
        switch(x)
        {
            case 1: Method1();
            break;
            case 2: Method2();
            break;
            case 3: Method3();
        }
    }
}
```

- for(int i=1;i<=2;j++) MethodSwitch(i);
- for(int i=1;i<=5;j++) MethodSwitch(i);
- for(int i=1;i<=3;j++) MethodSwitch(i);
- for(int i=1;i<=4;i++) MethodSwitch(i);

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Question 10 of 40

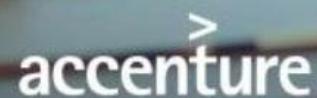
Topic: .NET, Sub-Topic : LanguageFundamentals

Given the following code:

```
class SwitchExample
{
    public static void Method1() { Console.WriteLine("in Method1"); }
    public static void Method2() { Console.WriteLine("in Method2"); }
    public static void Method3() { Console.WriteLine("in Method3"); }
    public static void Method4() { Console.WriteLine("in Method4"); }
    public static void MethodSwitch(int x)
    {
        switch(x)
        {
            case 1: Method1();
            break;
            case 2: Method2();
            break;
            case 3: Method3();
        }
    }
}
```

- for(int i=1;i<=2;j++) MethodSwitch(i);
- for(int i=1;i<=5;j++) MethodSwitch(i);
- for(int i=1;i<=3;j++) MethodSwitch(i);
- for(int i=1;i<=4;i++) MethodSwitch(i);

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Question 12 of 40

Topic: .Net, Sub-Topic:CoreUtilities

Consider the following code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

namespace ConsoleApplication3
{
    class StringDemo
    {
        public static void Main()
        {

            String str="AAA",s1="AA";
            StringBuilder stringB=new StringBuilder(s1);
            Console.WriteLine(stringB.Equals(str)+", " + str.Equals(s1));
        }
    }
}
```

- False, False
- False, True
- True, False
- True, True

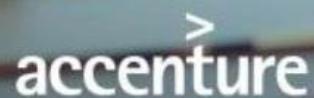
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Question 18 of 40

Topic: .Net, Sub-Topic:Collection

Below is the Collection Interface list with their meaning in unorganized order.

- 1-Purpose of IDictionary:Exposes a method that compares two objects.
- 2-Purpose of IList:Defines size, enumerators and synchronization methods for all collections.
- 3-Purpose of IComparer:Represents a collection of key-and-value pairs.
- 4-Purpose of ICollection:Represents a collection of objects that can be individually accessed by index.

Choose the best option to organize the above collection Interface and its meaning.

Choose most appropriate option.

- 1-IDictionary:Represents a collection of key-and-value pairs. 2-IList:Exposes a method that compares two objects. 3-IComparer:Represents a collection of objects that can be individually accessed by index. 4-ICollection: Defines size, enumerators and synchronization methods for all collections.
- 1-IDictionary:Defines size, enumerators and synchronization methods for all collections. 2-IList:Exposes a method that compares two objects. 3-IComparer:Represents a collection of objects that can be individually accessed by index. 4-ICollection:Represents a collection of key-and-value pairs.
- 1.ICollection:Defines size, enumerators and synchronization methods for all collections. 2.IComparer:Exposes a method that compares two objects.
3.IDictionary:Represents a collection of key-and-value pairs. 4_IList:Represents a collection of objects that can be individually accessed by index.
- 1-IDictionary: Represents a collection of key-and-value pairs. 2-IList:Defines size, enumerators and synchronization methods for all collections. 3-IComparer:Represents a collection of objects that can be individually accessed by index. 4-ICollection: Exposes a method that compares two objects.

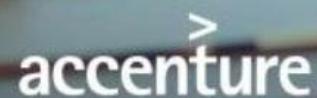
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Question 16 of 40

Topic: .NET Subtopic: Arrays

After understanding following code snippet, Sudhir is to determine the output of the following code:

```
int[] myarray = new int[3] {20,19,21};  
int[] copyarray= new int[3];  
Array.Copy(myarray, 0,copyarray,1, 1);  
Console.WriteLine("{0}-{1}-{2}", copyarray[0], copyarray[1], copyarray[2]);
```

According to you, what should be the output?

Choose most appropriate option

- 0-20-0
- 20-19-0
- 20-19-21
- None of the above, use of unassigned array index results in error.

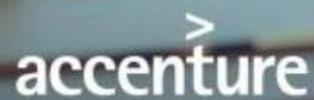
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Question 9 of 40

Topic: .NET Subtopic:Exception Handling

Sudhir wanted to evaluate scenarios where he might encounter the InvalidCastException. He is expecting this exception from the following code:

```
int intvar = 2;  
object objvar = (object)intvar;  
short shortvar = (short)objvar;  
Do you think he will get the expected Exception type?
```

Choose most appropriate option

No

Yes

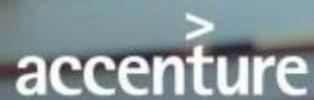
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Question 8 of 40

Topic: .NET , Sub-Topic: C#_Features

If str1 and str2 are references to two strings, then which of the following is the correct way to compare the two references?

Choose most appropriate option

- strcmp(str1, str2)
- str1.Equals(str2)
- str1 is str2
- str1 = str2
- str1 == str2

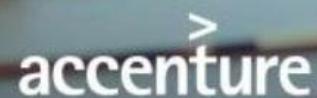
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Question 10 of 40

Topic: .NET, Sub-Topic : LanguageFundamentals

Given the following code:

```
class SwitchExample
{
    public static void Method1() { Console.WriteLine("in Method1"); }
    public static void Method2() { Console.WriteLine("in Method2"); }
    public static void Method3() { Console.WriteLine("in Method3"); }
    public static void Method4() { Console.WriteLine("in Method4"); }
    public static void MethodSwitch(int x)
    {
        switch(x)
        {
            case 1: Method1();
            break;
            case 2: Method2();
            break;
            case 3: Method3();
        }
    }
}
```

- for(int i=1;i<=2;j++) MethodSwitch(i);
- for(int i=1;i<=3;j++) MethodSwitch(i);
- for(int i=1;i<=5;j++) MethodSwitch(i);
- for(int i=1;i<=4;i++) MethodSwitch(i);

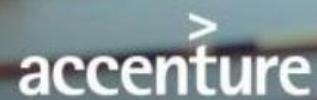
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Question 17 of 40

Topic:.Net , Sub-Topic:Multithreading

For long running tasks it is preferable to create your own threads using _____ delegate.

Choose most appropriate option.

- ThreadCreate
- ThreadPulse
- ThreadPool
- ThreadStart

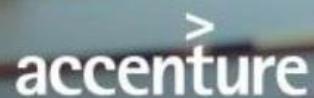
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Question 28 of 40

```
class OrderDemo
{
    static void Main()
    {

string[] englishletters= { "d", "c", "a", "b" };

var sorted = from englishletter in englishletters
            orderby englishletter
            select englishletter;

foreach (string value in sorted)
{
    Console.WriteLine(value);
}
}
```

- The output will be in the descending order
- The foreach loop is responsible for sorting the englishletters
- sorted is an IEnumerable <string>
- englishletters is an unsorted array

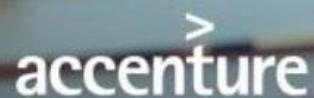
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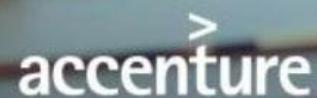
Question 28 of 40

```
{  
    static void Main()  
    {  
  
        string[] englishletters = { "d", "c", "a", "b" };  
  
        var sorted = from englishletter in englishletters  
                    orderby englishletter  
                    select englishletter;  
  
        foreach (string value in sorted)  
        {  
            Console.WriteLine(value);  
        }  
    }  
}
```

Choose two appropriate options.

- The output will be in the descending order
- The foreach loop is responsible for sorting the englishletters
- sorted is an IEnumerable <string>
- englishletters is an unsorted array

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Question 29 of 40

Topic: .NET4.0, Sub-Topic:SqlServer2008

Which of the following substantiates the use of stored procedure?

Choose most appropriate option.

- You can bypass permission checking on stored procedure.
- The execution plan is stored in the cache after it is executed the first time.
- The number of requests between the server and the client is reduced.
- Stored procedures accept parameters.

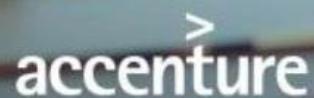
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Question 28 of 40

Topic.:NET4.0 ;Subtopic:LINQ

Consider the following code and identify the statements which are true?

```
using System;
using System.Linq;
```

```
class OrderDemo
{
    static void Main()
    {

        string[] englishletters = { "d", "c", "a", "b" };

        var sorted = from englishletter in englishletters
                    orderby englishletter
                    select englishletter;

        foreach (string value in sorted)
```

englishletters is an unsorted array

The foreach loop is responsible for sorting the englishletters

sorted is an IEnumerable <string>

The output will be in the descending order

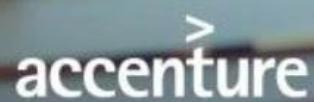
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Question 32 of 40

Topic: .NET, Sub-Topic: Parallel programming

Identify the below option for implementing for loop in parallel program.

Choose most appropriate option.

- for
- For.Parallel
- Parallel.For
- Foreach

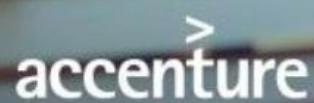
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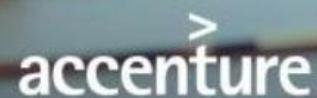
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- Question 6 Question 7 Question 8 Question 9 Question 10
- Question 11 Question 12 Question 13 Question 14 Question 15
- Question 16 Question 17 Question 18 Question 19 Question 20
- Question 21 Question 22 Question 23 Question 24 Question 25
- Question 26 Question 27 Question 28 Question 29 Question 30
- Question 31 Question 32 Question 33 Question 34 Question 35
- Question 36 Question 37 Question 38 Question 39 Question 40



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Question 39 of 40

Topic:.NET4.0 ; Subtopic:Exception Handling

Dharmendra was trying following code:

```
string[] myArray = { "MDC", "DDC", "PDC", "CDC", "BDC", "HDC" };
object[] myArrayId = myArray;
myArrayId[0] = 5;
Console.WriteLine("{0} ", myArrayId[0]);
```

According to you, which of the following exception will he get?

Choose most appropriate option

- System.ArrayTypeMismatchException
- System.IndexOutOfRangeException
- System.InvalidCastException
- There won't be any exception

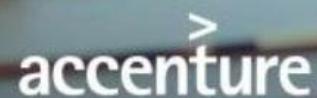
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Question 38 of 40

Topic: .NET, Sub-Topic: MethodCalling

Consider the following program:

```
using System;
class OptionalExample
{
    static void Method(int x=25)
    {
        Console.WriteLine("value={0}",n);
    }
    static void Main()
    {

        Method();
    }
}
```

- Value= 25
- Value= 0
- Value= null
- None of the above

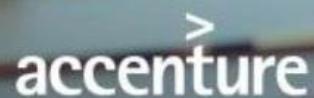
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Question 38 of 40

Topic: .NET, Sub-Topic:MethodCalling

Consider the following program:

```
using System;
class OptionalExample
{
    static void Method(int x=25)
    {
        Console.WriteLine("value={0}",n);
    }
    static void Main()
    {

        Method();
    }
}
```

- Value= 25
- Value= 0
- Value= null
- None of the above

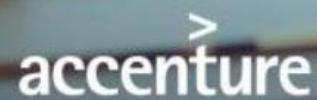
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Question 37 of 40

Topic: .Net, Subtopic:MemoryMapping

Which Method is used to create a MemoryMappedViewAccessor that maps to a view of the memory-mapped file

Choose most appropriate option

- CreateViewAccessor()
- CreateMemoryMappedViewAccessor()
- MemoryMappedViewAccesser()
- MemoryMappedViewStream()

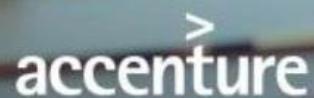
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Question 38 of 40

Consider the following program:

```
using System;
class OptionalExample
{
    static void Method(int x=25)
    {
        Console.WriteLine("value={0}",n);
    }
    static void Main()
    {

        Method();
    }
}
```

What will be the output of above program ?

- Value= 25
- Value= 0
- Value= null
- None of the above

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Question 38 of 40

Consider the following program:

```
using System;
class OptionalExample
{
    static void Method(int x=25)
    {
        Console.WriteLine("value={0}",n);
    }
    static void Main()
    {

        Method();
    }
}
```

What will be the output of above program ?

- Value= 25
- Value= 0
- Value= null
- None of the above

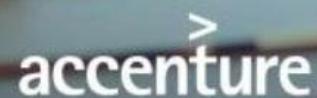
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Question 39 of 40

Topic:.NET4.0 ; Subtopic:Exception Handling

Dharmendra was trying following code:

```
string[] myArray = { "MDC", "DDC", "PDC", "CDC", "BDC", "HDC" };
object[] myArrayId = myArray;
myArrayId[0] = 5;
Console.WriteLine("{0} ", myArrayId[0]);
```

According to you, which of the following exception will he get?

Choose most appropriate option

- There won't be any exception
- System.InvalidCastException
- System.IndexOutOfRangeException
- System.ArrayTypeMismatchException

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Question 39 of 40

Topic:.NET4.0 ; Subtopic:Exception Handling

Dharmendra was trying following code:

```
string[] myArray = { "MDC", "DDC", "PDC", "CDC", "BDC", "HDC" };
object[] myArrayId = myArray;
myArrayId[0] = 5;
Console.WriteLine("{0} ", myArrayId[0]);
```

According to you, which of the following exception will he get?

Choose most appropriate option

- There won't be any exception
- System.InvalidCastException
- System.IndexOutOfRangeException
- System.ArrayTypeMismatchException

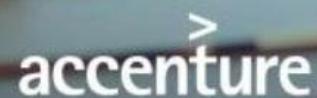
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Question 24 of 40

Topic: .NET; Subtopic: LINQ

Consider the following code and identify the statements which are true?

```
List<String> Vegetables = new List<String> {"Tomatoes", "Potatoes", "Onions"};  
String MatchingVeggie = Vegetables.Find(Name => Name.StartsWith("O"));
```

Choose three appropriate options.

- Name is function argument and it could have been named as "V" or "veg" or anything else
- Name => Name.StartsWith("O") is Lambda expression
- Name => Name.StartsWith("O") is not Lambda expression
- The Find function runs the lambda expression against each list item until a match is found

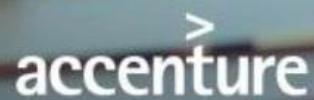
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Question 24 of 40

Topic: .NET; Subtopic: LINQ

Consider the following code and identify the statements which are true?

```
List<String> Vegetables = new List<String> {"Tomatoes", "Potatoes", "Onions"};  
String MatchingVeggie = Vegetables.Find(Name => Name.StartsWith("O"));
```

Choose three appropriate options.

- Name is function argument and it could have been named as "V" or "veg" or anything else
- Name => Name.StartsWith("O") is Lambda expression
- Name => Name.StartsWith("O") is not Lambda expression
- The Find function runs the lambda expression against each list item until a match is found

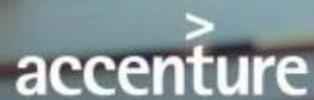
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Question 24 of 40

Topic: .NET; Subtopic: LINQ

Consider the following code and identify the statements which are true?

```
List<String> Vegetables = new List<String> {"Tomatoes", "Potatoes", "Onions"};  
String MatchingVeggie = Vegetables.Find(Name => Name.StartsWith("O"));
```

Choose three appropriate options.

- Name is function argument and it could have been named as "V" or "veg" or anything else
- Name => Name.StartsWith("O") is Lambda expression
- Name => Name.StartsWith("O") is not Lambda expression
- The Find function runs the lambda expression against each list item until a match is found

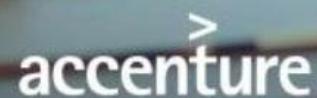
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Question 39 of 40

Topic:.NET4.0 ; Subtopic:Exception Handling

Dharmendra was trying following code:

```
string[] myArray = { "MDC", "DDC", "PDC", "CDC", "BDC", "HDC" };
object[] myArrayId = myArray;
myArrayId[0] = 5;
Console.WriteLine("{0} ", myArrayId[0]);
```

According to you, which of the following exception will he get?

Choose most appropriate option

- System.IndexOutOfRangeException
- System.ArrayTypeMismatchException
- There won't be any exception
- System.InvalidCastException

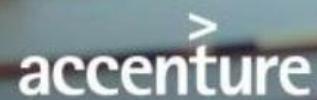
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Question 39 of 40

Topic:.NET4.0 ; Subtopic:Exception Handling

Dharmendra was trying following code:

```
string[] myArray = { "MDC", "DDC", "PDC", "CDC", "BDC", "HDC" };
object[] myArrayId = myArray;
myArrayId[0] = 5;
Console.WriteLine("{0} ", myArrayId[0]);
```

According to you, which of the following exception will he get?

Choose most appropriate option

- System.IndexOutOfRangeException
- System.ArrayTypeMismatchException
- There won't be any exception
- System.InvalidCastException

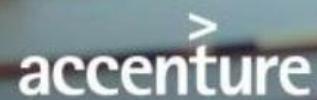
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Question 17 of 40

Topic:.Net , Sub-Topic:Multithreading

For long running tasks it is preferable to create your own threads using _____ delegate.

Choose most appropriate option.

- ThreadPool
- ThreadCreate
- ThreadStart
- ThreadPulse

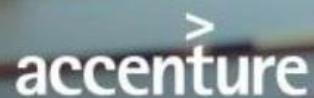
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Question 18 of 40

Topic: .Net, Sub-Topic:Collection

Below is the Collection Interface list with their meaning in unorganized order.

- 1-Purpose of IDictionary:Exposes a method that compares two objects.
- 2-Purpose of IList:Defines size, enumerators and synchronization methods for all collections.
- 3-Purpose of IComparer:Represents a collection of key-and-value pairs.
- 4-Purpose of ICollection:Represents a collection of objects that can be individually accessed by index.

Choose the best option to organize the above collection Interface and its meaning.

Choose most appropriate option.

- 1.ICollection:Defines size, enumerators and synchronization methods for all collections. 2.IComparer:Exposes a method that compares two objects.
- 3.IDictionary:Represents a collection of key-and-value pairs. 4_IList:Represents a collection of objects that can be individually accessed by index.
- 1-IDictionary:Represents a collection of key-and-value pairs. 2-IList:Exposes a method that compares two objects. 3-IComparer:Represents a collection of objects that can be individually accessed by index. 4-ICollection: Defines size, enumerators and synchronization methods for all collections.
- 1-IDictionary: Represents a collection of key-and-value pairs. 2-IList:Defines size, enumerators and synchronization methods for all collections. 3-IComparer: Represents a collection of objects that can be individually accessed by index. 4-ICollection: Exposes a method that compares two objects.
- 1-IDictionary:Defines size, enumerators and synchronization methods for all collections. 2-IList:Exposes a method that compares two objects. 3-IComparer:Represents a collection of objects that can be individually accessed by index. 4-ICollection:Represents a collection of key-and-value pairs.

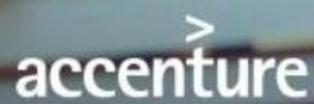
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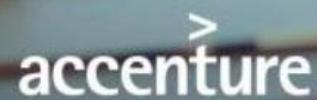
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Click any question number to attempt the question. Bookmarked questions are checked. Unattempted question are in Red.

- Question 1 Question 2 Question 3 Question 4 Question 5
- Question 6 Question 7 Question 8 Question 9 Question 10
- Question 11 Question 12 Question 13 Question 14 Question 15
- Question 16 Question 17 **Question 18** Question 19 Question 20
- Question 21 Question 22 Question 23 **Question 24** Question 25
- Question 26 Question 27 Question 28 Question 29 Question 30
- Question 31 Question 32 Question 33 Question 34 Question 35
- Question 36 Question 37 Question 38 Question 39 Question 40



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Question 36 of 40

Topic: .Net, Sub-Topic: Threading

Consider the following statements:

Statement1-Thread.Join(): This method blocks the calling thread until the thread terminates.
Statement2-task.Wait(): Task can wait for one or more tasks to end using Wait

Choose most appropriate option.

- Statement1 is False Statement2 is False
- Statement1 is False Statement2 is True
- Statement1 is True Statement2 is True
- Statement1 is True Statement2 is False

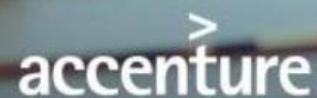
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Question 31 of 40

Topic: .Net, Sub-Topic:Delegates and Events

Consider the following code:

```
using System;
delegate string myDelegate(string str);
class A
{
    static string str1(string a)
    {
        Console.Write("apple ");
        return a;
    }

    static string str2(string a)
    {
        Console.Write("boy");
        return a;
    }
```

- Compilation Error
- cat dog
- apple boy
- apple boy cat dog

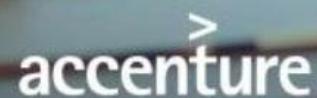
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Question 39 of 40

Topic:.NET4.0 ; Subtopic:Exception Handling

Dharmendra was trying following code:

```
string[] myArray = { "MDC", "DDC", "PDC", "CDC", "BDC", "HDC" };
object[] myArrayId = myArray;
myArrayId[0] = 5;
Console.WriteLine("{0} ", myArrayId[0]);
```

According to you, which of the following exception will he get?

Choose most appropriate option

- System.InvalidCastException
- System.IndexOutOfRangeException
- System.ArrayTypeMismatchException
- There won't be any exception

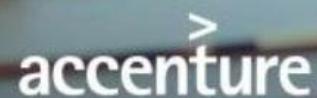
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Question 28 of 40

Topic.:NET4.0 ;Subtopic:LINQ

Consider the following code and identify the statements which are true?

```
using System;
using System.Linq;
```

```
class OrderDemo
{
    static void Main()
    {

        string[] englishletters = { "d", "c", "a", "b" };

        var sorted = from englishletter in englishletters
                    orderby englishletter
                    select englishletter;

        foreach (string value in sorted)
```

- englishletters is an unsorted array
- sorted is an IEnumerable <string>
- The output will be in the descending order
- The foreach loop is responsible for sorting the englishletters

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Question 24 of 40

Topic: .NET; Subtopic: LINQ

Consider the following code and identify the statements which are true?

```
List<String> Vegetables = new List<String> {"Tomatoes", "Potatoes", "Onions"};  
String MatchingVeggie = Vegetables.Find(Name => Name.StartsWith("O"));
```

Choose three appropriate options.

- The Find function runs the lambda expression against each list item until a match is found
- Name => Name.StartsWith("O") is Lambda expression
- Name => Name.StartsWith("O") is not Lambda expression
- Name is function argument and it could have been named as "V" or "veg" or anything else

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Question 10 of 40

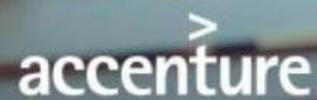
Topic: .NET, Sub-Topic : LanguageFundamentals

Given the following code:

```
class SwitchExample
{
    public static void Method1() { Console.WriteLine("in Method1"); }
    public static void Method2() { Console.WriteLine("in Method2"); }
    public static void Method3() { Console.WriteLine("in Method3"); }
    public static void Method4() { Console.WriteLine("in Method4"); }
    public static void MethodSwitch(int x)
    {
        switch(x)
        {
            case 1: Method1();
            break;
            case 2: Method2();
            break;
            case 3: Method3();
        }
    }
}
```

- for(int i=1;i<=4;j++) MethodSwitch(i);
- for(int i=1;i<=2;i++) MethodSwitch(i);
- for(int i=1;i<=5;j++) MethodSwitch(i);
- for(int i=1;i<=3;i++) MethodSwitch(i);

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Question 2 of 40

Topic: .NET ; Subtopic: Introduction to Design Documents

Zeenat needs to create a UML Diagram that can depict the user requirements, scenarios in which your system or application interacts with people, organizations or external systems. Which diagram should she be using?

Choose most appropriate option

- Object Diagram
- Class Diagram
- Use Case Diagram
- Sequence Diagram

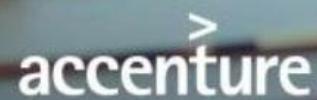
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Question 14 of 40

Topic: .NET, Sub-Topic: Collections

What is the .NET collection class that allows an element to be accessed using a unique key?

Choose most appropriate option.

- ArrayList
- StringCollection
- Stack
- HashTable

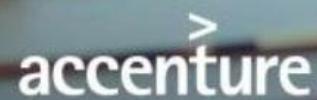
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Question 37 of 40

Topic: .Net, Subtopic:MemoryMapping

Which Method is used to create a MemoryMappedViewAccessor that maps to a view of the memory-mapped file

Choose most appropriate option

- CreateViewAccessor()
- MemoryMappedViewAccesser()
- CreateMemoryMappedViewAccessor()
- MemoryMappedViewStream()

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Question 35 of 40

Topic: .NET, Sub-Topic : Delegates and Events

Which of the following is true about Events?

Choose three appropriate options.

- Option-A: Events are declared using delegates.
- Option-B: An event is a way for a class to allow clients to give delegates to methods that should be called when the event occurs.
- Option-C: An event is a way for a class to provide notifications to clients of that class when some interesting thing happens to an object
- Option-D: Reference a method only if the signature of the method exactly

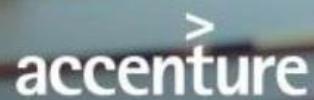
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Question 21 of 40

Topic:.NET , Subtopic:OtherFeaturesInCSharp

Poorva has created following class:

```
public class Employee
{
    public int EmployeeCode{ get; set; }
    public string EmployeeName{ get; set; }
    public int EmployeeAge{ get; set; }
}
```

Please select correct code for initializing an object by using Object Initializers.

Choose most appropriate option

- Employee emp=new Employee() { EmployeeCode=111; EmployeeName="Raghav"; EmployeeAge=26; };
- Employee emp=new Employee() (EmployeeCode=111; EmployeeName="Raghav"; EmployeeAge=26;);
- Employee emp=new Employee (EmployeeCode=111; EmployeeName="Raghav"; EmployeeAge=26;);
- Employee emp=new Employee { EmployeeCode=111, EmployeeName="Raghav", EmployeeAge=26 };

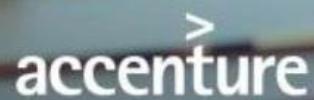
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Question 14 of 40

Topic: .NET, Sub-Topic: Collections

What is the .NET collection class that allows an element to be accessed using a unique key?

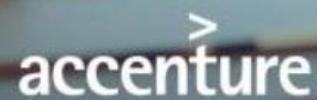
Choose most appropriate option.

- ArrayList
- StringCollection
- Stack
- HashTable

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Question 2 of 40

Topic: .NET ; Subtopic: Introduction to Design Documents

Zeenat needs to create a UML Diagram that can depict the user requirements, scenarios in which your system or application interacts with people, organizations or external systems. Which diagram should she be using?

Choose most appropriate option

- Object Diagram
- Use Case Diagram
- Class Diagram
- Sequence Diagram

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Question 25 of 40

Topic: .NET, Sub-Topic : LanguageFundamentals

Identify the output for the program below –

```
class ExampleDemo
{
    public static void Main(string [] args)
    {
        Console.Writeline("River of \\ndreams");
        Console.Writeline("So far \\nso good");
    }
}
```

Choose most appropriate option.

- River of dreams So far so good -----> will display in different line.
- River of \\n dreams So far \\nso good -----> will display in different line.
- River of dreams
- River of \\dreams \\ So far so good -----> will display in different line.

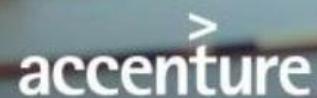
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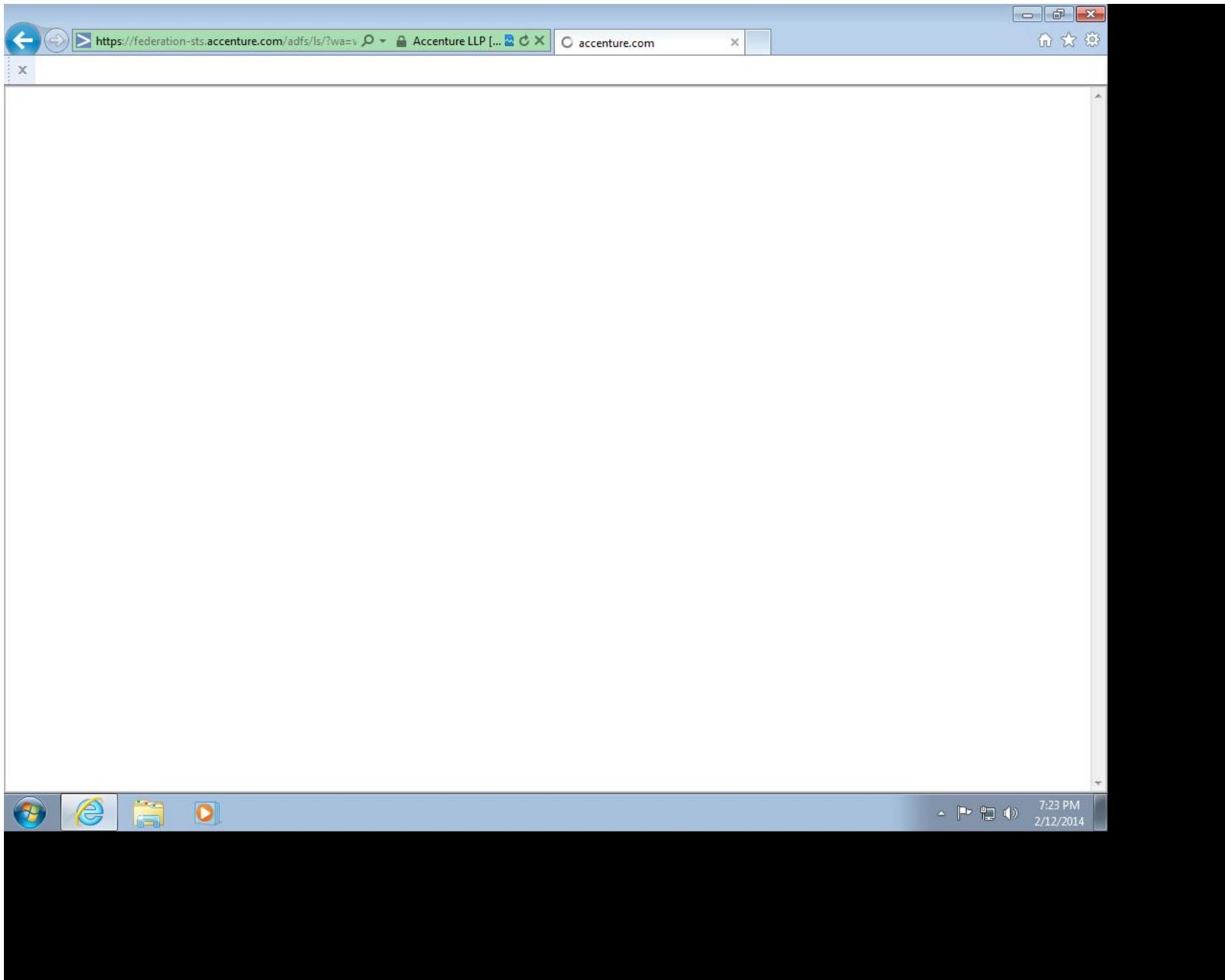
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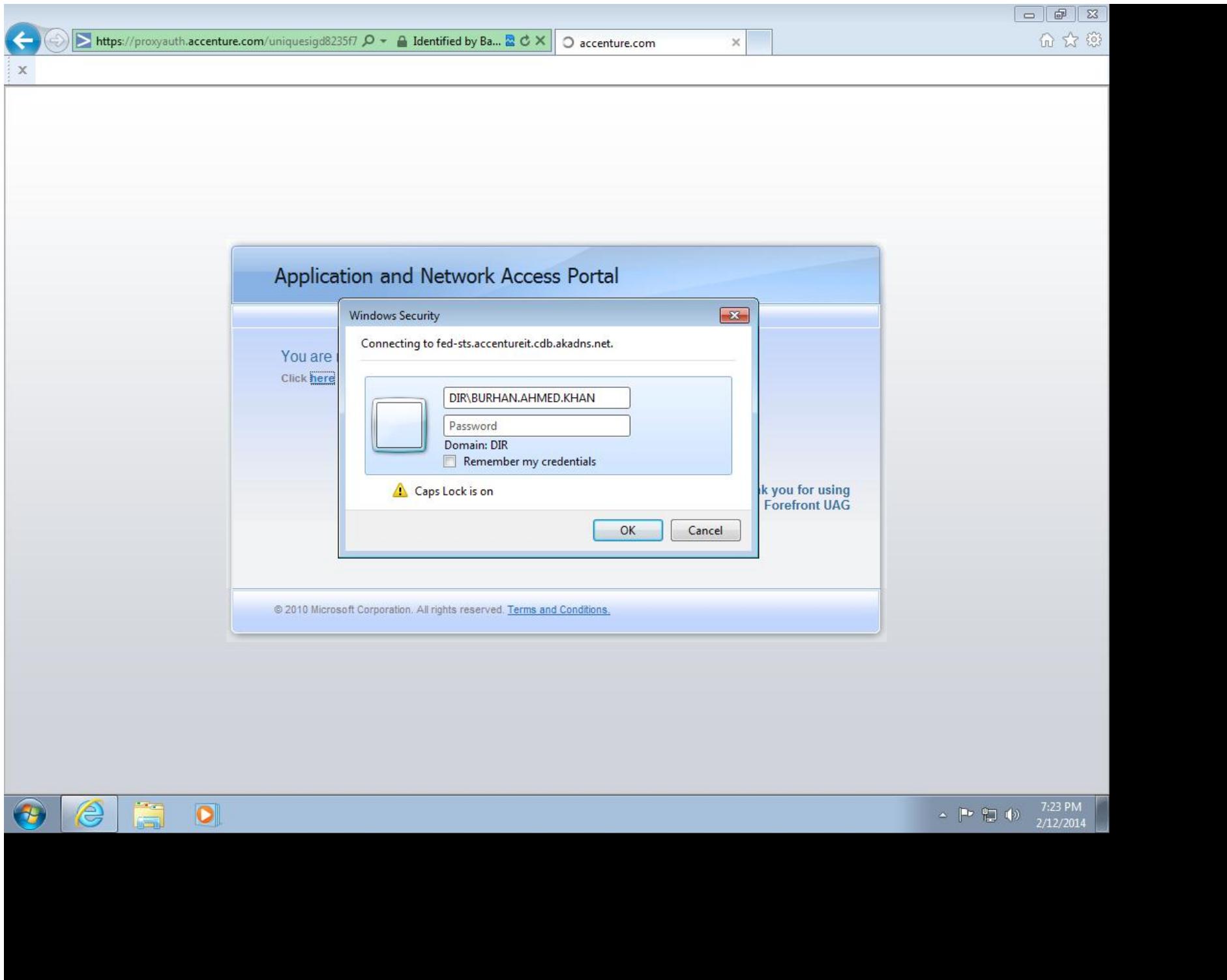
Topic:.NET, Subtopic: Generics

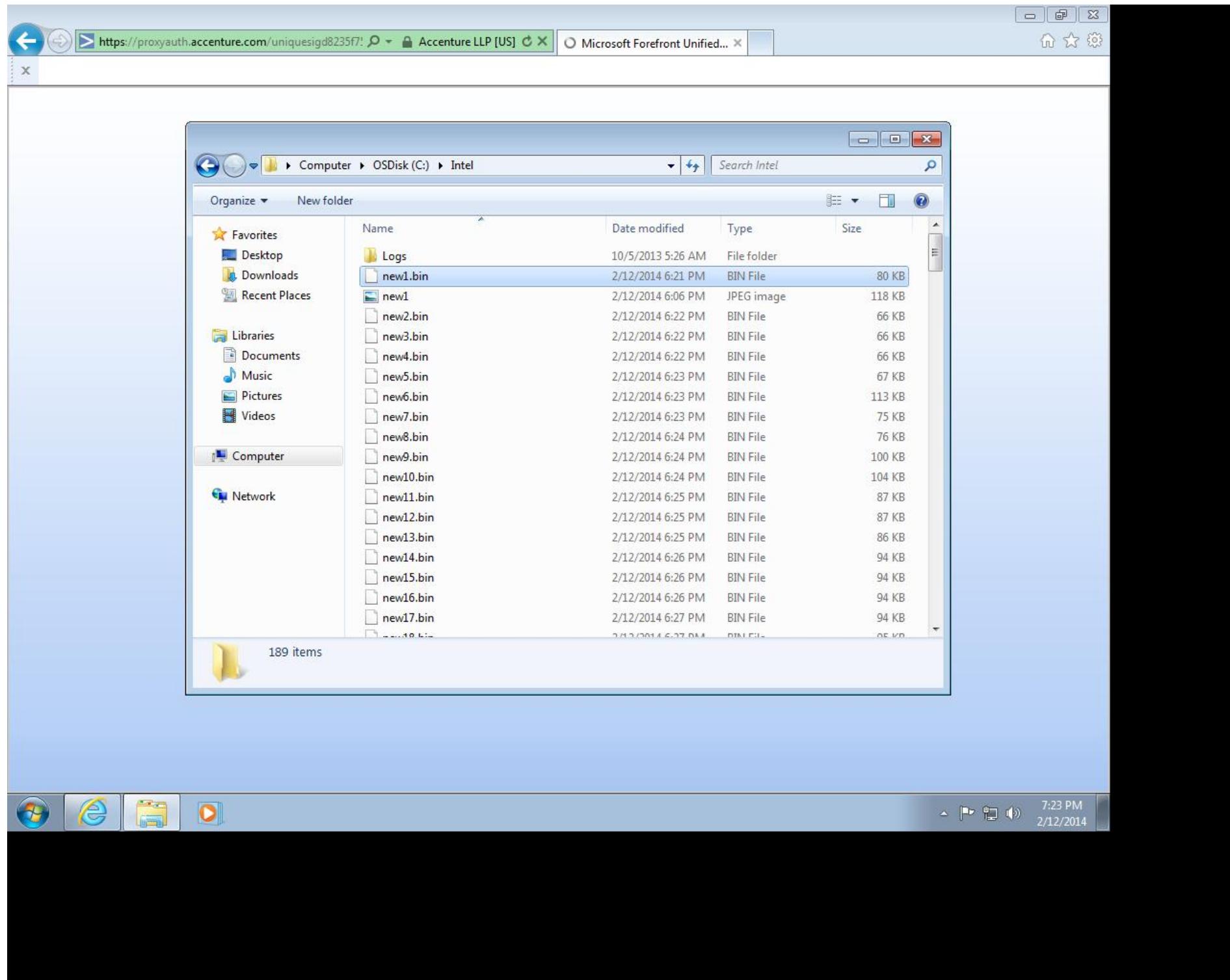
```
namespace TEST
{
    public class TestFunc
    {
        public void TestSub<M>(M arg)
        {
            Console.Write(arg);
        }
    }
    class MyProgram
    {
        static void Main(string[] args)
        {
            TestFunc b = new TestFunc();
            b.TestSub("Test ");
            b.TestSub(4.6f);
```

- Test 4.6
- 46
- Test 46
- Test 4.6f

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Knowledge Check 3 Solutions

Note: When grading, each question is worth 3.12 points (%) for a total of 100 (%).

- 1) What is the .NET collection class that allows an element to be accessed using a unique key?
 - a. ArrayList
 - b. **HashTable**
 - c. StringCollection
 - d. None of the above

Explanation for Faculty:

A is incorrect. ArrayList does not use unique key to access its elements.

B is the correct answer. HashTable is the collection class in which the elements can be accessed using a unique key.

C is incorrect. StringCollection does not use a unique key. One way of accessing elements in a StringCollection is by the use of the IEnumarator.

- 2) What is the top .NET class from which everything is derived?
 - a. System.Collections
 - b. System.Globalization
 - c. **System.Object**
 - d. System.IO
- 3) Which of the following commands is suitable to use when manipulating many strings (e.g., append / insert / delete)?
(Select the best option)
 - a. System.String
 - b. Char Array
 - c. Struct
 - d. **StringBuilder**
 - e. All of the above

Explanation for Faculty:

StringBuilder is best suited for this purpose as it does not create a new string every time the value of the string is modified. System.String creates a new string whenever the value is modified.

- 4) What namespace contains classes that can be used to define culture-related information?
- System.Globalization**
 - System.Localization
 - A custom namespace with custom functions written to handle localization.
 - None as it is available by default.

Explanation for Faculty:

System.Globalization class contains the required methods and/or properties necessary to create a localized application. There is no namespace called System.Localization. These methods are not available by default – the System.Globalization needs to be imported explicitly.

- 5) Which of the following should be inherited from when writing Custom Collections?
- ICollection
 - CollectionBase**
 - Both a and b.
 - Write your own base class and inherit from it.

Explanation for Faculty:

All custom collection classes should inherit from CollectionBase. ICollection is an interface which is used by most of the collection classes.

- 6) Under what permissions do delegates run?
- Caller's permission**
 - Declarer's permission
 - The most strict permission available
 - The least strict permission available
 - It does not require any permission to run.
- 7) Which of the following statements are true?
- XML serialization serializes only the public fields and property values of an object.
 - XML serialization results in strongly-typed classes with public properties and fields that are converted to a serial format for storage or transport.
 - XML serialization converts all methods, private fields, or read-only properties (irrespective of their access modifier).
 - Both a and b.**
 - None of the above.

Explanation for Faculty:

A) and B) are both correct. XML Serialization can be used to serialize only the public fields and properties. To serialize all an object's fields and properties, both public and private, use the BinaryFormatter instead of XML serialization. Also, XML Serialization does not include any type information.

8) The class that encapsulates the event information should be derived from:

- a. **System.EventArgs**
- b. System.EventHandler
- c. System.Delegate
- d. System.ComponentModel.EventDescriptor
- e. None of the above

Explanation for Faculty:

The class that encapsulates the event information should be derived from EventArgs. System.EventHandler represents the method that will handle the event that has no event data. The Delegate class is the base class for delegate types. ComponentModel.EventDescriptor class provides information about an event.

9) Which of the following statements are true?

- a. **A delegate can reference a method only if the signature of the method exactly matches the signature specified by the delegate type.**
- b. A delegate can reference a method as long as the return type matches the return type specified by the delegate type. There is no need for the parameters to match.
- c. A delegate can reference a method as long as the parameters and their data types match those specified by the delegate type. There is no need for the return type to be the same.
- d. Both b and c.
- e. All of the above.

10) Which of the following classes are used to read and write encoded strings and primitive datatypes from and to streams?

- a. StreamReader and StreamWriter
- b. **BinaryReader and BinaryWriter**
- c. StringReader and StringWriter
- d. TextReader and TextWriter

Explanation for Faculty:

BinaryReader and BinaryWriter are used to read and write encoded strings and primitive datatypes from and to streams. StreamReader and StreamWriter are used to read and write characters from and to streams. TextReader and TextWriter are the abstract base classes.

- 11) For which of the following can generic types be used?
(Select the best option)
- To maximize code reuse, type safety and performance
 - To create collection classes
 - To create your own generic interfaces, classes, methods, events, and delegates
 - All of the above**
- 12) Which of the following about iterators is true?
(Select the best option)
- They are a method, get accessor, or operator that supports foreach iteration in a class or struct.
 - They are used in collection classes.
 - Using an iterator allows us to traverse a data structure without having to implement the IEnumerable interface.
 - All of the above.**
 - Both a and c.
- 13) Which of the following about partial types is true?
(Select the best option)
- Allows us to split the definition and implementation of a method in a class across multiple files.
 - Allows us to split the definition and implementation of a class across multiple files.**
 - Allows us to split the method definition in one file and implementation in another file.
 - All of the above.
- 14) Which of the following is true concerning a static class?
- A static class allows adding non-static members.
 - One can create instances of the static class.
 - The keyword 'static' is used when defining a static class.**
 - One can create a derived class from a static class.
 - All of the above.

Explanation for Faculty:

A static class does not allow adding of non static members. We cannot create an instance of a static class. A static class cannot be derived.

15) What is the visibility qualifier used for?

(Select the best option)

- a. **Specifying different visibility for the get and set accessors of a property or an indexer.**
- b. Setting the visibility of the accessor get and set to public even though the property visibility is set to protected.
- c. Setting the visibility of the accessor and set to public even though the property visibility is set to internal.
- d. All of the above.

16) Which of the following is true about nullable types?

(Select the best option)

- a. A Value type variable can be assigned the value of null.
- b. HasValue and Value properties are used to test for null and to retrieve the value of a Nullable type.
- c. The System.Nullable.GetData property is used to return the assigned value.
- d. Both a and c.
- e. **Both a and b.**
- f. All of the above.

Explanation for Faculty:

Nullable Types are value type variable that can be assigned the value of null. The HasValue and Value property is used to test for null and to retrieve value of a Nullable type. The System.Nullable.GetValueOrDefault property is used to return the assigned value or the default value for the underlying type.

17) What are delegate inferences used for?

(Select the best option)

- a. To declare a delegate object
- b. To wrap a method to a delegate object
- c. **To make a direct assignment of a method name to a delegate variable without wrapping it first with a delegate object**
- d. Both a and c
- e. All of the above

- 18) Which of the following is true about generic types?
(Select the best option)
- System.Collections.Generic namespace in the .NET class library contains the generic collection classes.
 - You can create your own generic interfaces, classes, methods, events, and delegates.
 - Reflection can be used to understand the information on the types used in a generic datatype.
 - All of the above.**
- 19) Which of the following is used as the global namespace qualifier?
- ::global
 - global::**
 - global:
 - None of the above
- 20) Which of the following is a rule for an abstract class?
- An abstract class can be instantiated.
 - A class having abstract methods may not be an abstract class.
 - A class that has more than one abstract method, whether declared or inherited from an abstract class, may be declared abstract.
 - When you use an abstract modifier on a static property it will result in an error.**

Explanation for Faculty:

(a) An abstract class cannot be instantiated. (b) A class with at least one abstract method must be declared as an abstract class. (c) A class that has at least one abstract method, whether declared or inherited from an abstract class, must be declared abstract. (d) You may not use the abstract modifier on a static property as this will result in an error.

- 21) Which of the following is a rule for an interface?
- All interface members implicitly have private access.
 - An object of a class can be casted to the interface which it implements.**
 - A class implementing an interface may or may not contain all the implementations of the members declared in the interface.
 - The interface provides implementations for its members.

Explanation for Faculty:

(a) All interface members implicitly have public access. (b) Correct. The rule for an Interface is that an object of a class can be casted to the interface which it implements. (c) A class implementing an interface must implement all the members declared within the interface. (d) The interface itself does not provide implementations for the members that it defines.

22) Which of the following statements about the overloadability of operators are true?
(Select the best option)

- a. Binary operators can be overloaded.
- b. The cast operator cannot be overloaded, but you can define new conversion operators.
- c. Unary operators can be overloaded.
- d. **All of the above.**

23) Which of the following is true about static constructors?
(Select the best option)

- a. Only static classes have static constructors.
- b. A class can have parameterized static constructors.
- c. **Static constructors get executed when static members of a class are accessed for the first time or when an object of the class is created.**
- d. Static variables get instantiated when a static constructor gets called.

Explanation for Faculty:

(a) All classes have static constructors. (b) Static constructor doesn't have parameters and access modifiers cannot be applied to it. (c) Correct. Static constructor gets executed when static members of a class are accessed for the first time or when an object of the class is created. (d) Static variables get instantiated before the static constructor.

24) Which of the following is true about threading in .NET?

- a. Threading is implemented using the classes under the namespaces System.ThreadStart and System.ThreadPool.
- b. **ThreadStart delegate is used for long running tasks while ThreadPool is used for short running tasks.**
- c. Multiple threads within a process cannot share common data amongst them.
- d. Multiple processes share common data between them.
- e. Both a and b.

Explanation for Faculty:

(a) Classes under System.Threading help implementation of threading in .NET. (b) Correct. ThreadStart delegate is used for long running tasks while ThreadPool is used for short running

tasks. (c) Multiple threads within a process can share common data amongst them. (d) Multiple processes cannot share common resources.

25) Identify the correct statement pertaining to delegates.

- a. Delegates are type-safe function pointers where any method can be called through the delegate.
- b. **Async delegate calls can be made using the BeginInvoke() and EndInvoke() methods of a delegate.**
- c. Multiple methods attached to a delegate get executed in an asynchronous manner when the delegate is called.
- d. An event-like pattern can be implemented using events only.

Explanation for Faculty:

(a) To call a method through a delegate, the signature of the delegate and the method must match. (b) Correct. Async delegate calls can be made using the BeginInvoke() and EndInvoke() methods of a delegate. (c) Multiple methods attached to a delegate gets executed synchronously in the order in which they got attached. (d) Delegates and events work hand-in-hand to produce event-like pattern.

26) Identify the ways through which threads can be implemented.

- a. By directly or indirectly using the ThreadPool class
- b. By using the ThreadStart delegate
- c. By the BeginInvoke() method of delegate
- d. By the BeginInvoke() method of Stream
- e. **a, b, and c**
- f. a, b, and d

Explanation for Faculty:

Threads can be implemented by directly or indirectly using the ThreadPool class, by using the ThreadStart delegate, and by the BeginInvoke() method of delegate. (d) By the BeginRead() method of Stream.

27) Predict the outcome of the following program.

```
namespace TestThreading
{
    class Program
    {
        static void Main()
        {
            ThreadStart task1 = new ThreadStart(ProcessTask1);
            Thread t1 = new Thread(task1);
```

```
t1.Start();  
Console.ReadLine();  
}  
  
static void ProcessTask1()  
{  
    for (int i = 0; i < 3; i++)  
    {  
        Console.WriteLine("Thread t1 in action");  
        Thread.Sleep(5);  
    }  
}
```

- a. **Thread t1 in action**
Thread t1 in action
Thread t1 in action
- b. Error in the program
- c. Thread t1 in action
- d. None of the above

28) Are the following statements true or false?

Statement1: Join() method – This method blocks the calling thread until the thread terminates.

Statement2: Sleep() method – This method blocks the thread for a specific amount of time.

- a. **Both statements are true.**
- b. Both statements are false.
- c. Statement1 is false and statement2 is true.
- d. Statement2 is false and statement1 is true.

29) Are the following statements true or false?

Statement1: Lowest priority – The thread with this priority can be scheduled after threads with any other priority.

Statement2: Highest priority – The thread with this priority can be scheduled before threads with any other priority.

- a. **Both statements are true.**
- b. Both statements are false.
- c. Statement1 is false and statement2 is true.
- d. Statement2 is false and statement1 is true.

30) Are the following statements true or false?

Statement1: Which gives us the capabilities to assess our own custom methods to data types without deriving from the base class.

Statement2: Allows you to pass in named values for each of the public properties that will be used to initialize the object.

- a. **Both statements are true.**
- b. Both statements are false.
- c. Statement1 is false and statement2 is true.
- d. Statement2 is false and statement1 is true.

31) Each XML document has exactly one _____, also known as the document element.

- a. XML declaration
- b. **root element**
- c. closing
- d. attribute
- e. opening

32) _____ are information not part of the data the element holds.

- a. XML declarations
- b. Root elements
- c. Openings
- d. Closings
- e. **Attributes**

Knowledge Check 1 Solutions

Note: When grading, each question is worth 5.55 points for a total of 100.

33) The _____ is a comprehensive, object-oriented collection of reusable types.

- a. **Class Library**
- b. Console Application
- c. None of the Above

34) In the .NET Framework, where is the version information of an assembly stored?

- a. Version Controller
- b. **Manifest**
- c. Visual Source Safe
- d. Common Type System

35) What tool is used to manage the assemblies in the Global Assembly Cache?

- a. **gacutil.exe**
- b. gassy.exe
- c. gacmgr.exe
- d. al.exe

36) Which of the following languages is not a managed code in the .NET Framework?

- a. C#
- b. VC++
- c. **C**
- d. VJ#
- e. VB
- f. None of the above

37) Which of the following does an assembly contain?

- a. **Manifest, Type metadata, Resources, MSIL code**
- b. Manifest, Type metadata
- c. Manifest, Type metadata, Resources
- d. Manifest

38) What are the different types of comments that can be implemented in C#.NET?

- a. **Single-line comment, multi-line comment, documentation comment**
- b. Single-line comment, multi-line comment

- c. Multi-line comment, documentation comment
d. None of the above
- 39) Identify the contextual keywords for the options below.
- a. **From, ascending, where, select**
b. DoWhile, while, for
c. Switch, goto
d. public, private
- 40) Which of the following statements about boxing is true?
- a. **It is a datatype conversion technique that is used to convert a value type to an object type or a reference type.**
b. It is a datatype conversion technique that is used to convert a reference type to a value type.
c. It is a datatype conversion technique that is used to convert a value type to a value type.
d. None of the above.
- 41) Which of the following displays icons in a hierarchical treeview, where each icon represents a different type of symbol; such as namespace, class, and function?
- a. Solution Explorer
b. Treeview
c. Properties Window
d. Add Reference
- 42) Identify the output for the program below. What will the program print?
- ```
Class ExampleDemo
{
 Public static void Main(string [] args)
 {
 Console.Writeline("River of \ndreams");
 }
}
```
- a. River of dreams  
b. River of  
    dreams  
c. dreams  
**d. River of \ndreams**

43) Analyze the following code and identify what will happen when the code runs.

```
Class Arithmetic
{
 Public static void AddNum(int number1,int number2)
 {
 Try
 {
 Int result=number1/number2;
 Console.WriteLine(result);
 }
 Catch(DivideByZeroException e)
 {
 Console.WriteLine("Exception : {0}",e);
 }
 }
 Public static void Main ()
 {
 Arithmetic.AddNum(100,0);
 Console.ReadLine();
 }
}
```

- a. Syntax error
- b. Logical error
- c. Runtime error**
- d. No error

44) Predict the output of the following code.

```
Using System;
Class ExampleCode
{
 Public static void Main()
 {
 Char var='A';
 Console.WriteLine(A+1);
 Console.ReadLine();
 }
}
```

- a. 66
- b. A
- c. A1
- d. Compilation error**

45) Analyze the following code then answer the question that follows.

```
1 class Test
2 {
3 void MethodOne()
4 {
5 int x = 10;
6 MethodTwo (x);
7 System.Console.WriteLine("\nMethodOne " + x);
8 x = 20;
9 System.Console.WriteLine("\nMethodOne " + x);
10 }
11 void MethodTwo (int x)
12 {
13 System.Console.WriteLine("\nMethodTwo " + x);
14 x = 50;
15 System.Console.WriteLine("\nMethodTwo " + x);
16 }
17 public static void Main(string[] args)
18 {
19 Test b = new Test();
20 b.MethodOne();
21 }
22 }
```

Which of the following output is correct when the C# program above is executed?  
(Select the best option)

- a. **MethodTwo 10**  
**MethodTwo 50**  
**MethodOne 10**  
**MethodOne 20**
- b. MethodTwo 10  
MethodOne 10  
MethodTwo 50  
MethodOne 20
- c. MethodTwo 10  
MethodOne 10  
MethodTwo 50  
MethodTwo 50
- d. Error in the program

46) Which of the following will legally declare a construct and initialize an array?  
(Select the best option)

- a. char myList[] = ['a', 'b', 'c'];
- b. char myList[] = {a ; b; c; };
- c. **char [ ] myList = {'a', 'b', 'c'};**
- d. char myList [] = {'a'; 'b'; 'c'};

47) What are the contents of an Assembly?

- a. Type metadata
- b. MSIL
- c. Set of resources
- d. Assembly manifest
- e. **All of the above**

48) From which of the following menu lists in Visual Studio are controls dragged and dropped into the Designer window?

- a. **ToolBox**
- b. Solution Explorer
- c. ControlBox
- d. TaskList

49) Which of the following options is used for debugging when there is no need to examine a nested method call?

- a. **Step out**
- b. Step over
- c. Step into
- d. None of the above

50) Predict the output of the following code.

```
Using System;
Class ExampleCode
{
 Public static void Main()
 {
 Char var='A';
 Console.WriteLine(var+1+10);
 Console.ReadLine();
 }
}
```

**a. 76**

- b. A
- c. A1
- d. Compilation error

## Knowledge Check 2 Solutions

**Note:** When grading, each question is worth 5.55 points (%) for a total of 100 (%).

51) What happens during OOP?

- a. Programs are based on the concept of procedure call.
- b. **Objects communicate and interact with each other using messages.**
- c. Programs are organized in a fashion similar to how we organize things in our everyday lives.
- d. None of the above.

52) Match the concepts listed on the right with their correct descriptions.

|          |                                                                                                 |                  |
|----------|-------------------------------------------------------------------------------------------------|------------------|
| <b>C</b> | 1) The ability to hide the internal implementation details of an object from its external view. | a) Object        |
| <b>B</b> | 2) The ability to create new classes based on existing classes.                                 | b) Inheritance   |
| <b>D</b> | 3) An object's ability behaves differently depending on its type.                               | c) Encapsulation |
| <b>A</b> | 4) A self contained entity with attributes and behavior.                                        | d) Polymorphism  |

### **Explanation for Faculty:**

- 1) *Encapsulation makes the implementation of an algorithm hidden from its client.*
- 2) *Inheritance allows you to create a class that inherits the state and behaviors of its baseclass, thus creating new classes based on existing classes in the hierarchy.*
- 3) *Polymorphism is generally the ability to appear in many forms. In object-oriented programming, more specifically, it is the ability to redefine methods for derived classes.*
- 4) *An object is a self-contained entity with attributes and behaviors.*

53) Which of the following is true about a constructor? (Select the best option)

- a. **A constructor is a method that is invoked automatically when a new instance of a class is created.**
- b. Constructors do not initialize the variables of the newly created object.
- c. Constructors are used to remove objects from memory.
- d. The constructor method should have a different name than the class name.
- e. None of the above.

***Explanation for Faculty:***

*A) Correct. A constructor method is invoked automatically when a new instance of a class is created.*

*B) Incorrect. This statement is false because constructors DO initialize the variables of a newly created object. Whenever an object is instantiated, you should always call the constructor of that class. Constructors are the last to be called by the CLR to check if any uninitialized variables are inside the class (but outside any constructor), were set inside the constructors.*

*C) Incorrect. This statement is false because constructors do not remove objects from memory. In C#, there is an automatic memory cleaning mechanism, which is done by the Garbage Collector.*

54) Which of the following is true about overloading? (Select the best option)

- a. Overloaded methods must change the argument list.
- b. Overloaded methods can change the return type.
- c. Overloaded methods can change the access modifier.
- d. **All of the above.**

***Explanation for Faculty:***

*A is a true statement. Method signature is defined by the method name and argument list. Overloaded methods are unique methods with the same name; therefore, the argument list must change.*

*B and C are also true statements because overloaded methods do not really care about the return type and access modifiers. They may or may not change their return types and modifiers.*

55) Which of the following is true about overriding? (Select the best option)

- a. Overridden methods must exactly match the argument list.
- b. Overridden methods must exactly match the return type.
- c. The access level of overridden methods cannot be more restrictive.
- d. You cannot override a method marked sealed.
- e. **All of the above.**

**Explanation for Faculty:**

*A and B are true statements because overriding methods must have exactly the same method name, argument lists and return types.*

*D is a true statement because sealed methods cannot be overridden. Note the implication of 'sealed' keyword, sealed classes cannot be extended or inherited.*

56) Which of the following is true about the parent-child assignment in inheritance? (Select the best option)

- a. child ≠ parent;
- b. parent = child;
- c. parent = (child) child;
- d. child = (child) parent;
- e. **All of the above**

**Explanation for Faculty:**

*A is a true statement. Child = parent is casting down the inheritance hierarchy, which is forbidden in C#. This results in a compiler error.*

*B is a true statement because Child inherits from Parent so Child is implicitly casted to type Parent.*

*C is a true statement. Although implicitly casted as in B, it could also be explicitly casted this way.*

*D is a true statement. Parent was forced to be casted to type Child. This will compile legally but at runtime, this statement will yield InvalidCastException.*

57) Which of the following is true about polymorphism? (Select the best option)

- a. Polymorphism refers to an object's ability to behave similarly regardless of its type.
- b. **Overloading is the process of reusing a method name but attached to a different signature in the same class.**
- c. Overriding is the process of reusing a method name but attached to a different signature in the subclass class.

- d. All of the above.  
e. None of the above.
- 58) Which of the following is a true statement? (Select the best option)
- The relationship between a class and its base class is an example of a "has-a" relationship.
  - The relationship between a class and its base class is an example of an "is-a" relationship.**
  - The relationship between a class and an object referenced by a field within the class is an example of a "is-a" relationship.
  - None of the above.
- 59) Which of the following statements is true? (Select the best option)
- A constructor can invoke another constructor of the same class.
  - A constructor cannot invoke itself.
  - A constructor can invoke the constructor of the direct base class.
  - All of the above.**
  - None of the above.

***Explanation for Faculty:***

*A is a true statement. Constructors can be overloaded but not overridden. To invoke another constructor of the same class, the keyword 'this()' is used.*

*C is a true statement. A constructor can invoke the constructor of the direct base class using "base()".*

- 60) Which of the following statements is true? (Select the best option)
- Constructors are not inherited.
  - Constructors can be overloaded.
  - Constructors must not have a return type.
  - The constructor name must match the name of the class.
  - All of the above.**
- 61) Which class is inherited by all other classes? (Select the best option)
- Object**
  - Exception
  - System
  - Threading

62) Given the following code, which of the following output is correct?

```
1 class ClassA
2 {
3 public ClassA()
4 {
5 System.Console.Write("ClassA ");
6 }
7 }
8 class ClassB : ClassA
9 {
10 public ClassB()
11 {
12 System.Console.Write("ClassB");
13 }
14 public static void Main(string[]args)
15 {
16 ClassA objB = new ClassB();
17 }
18 }
```

- a. ClassA
- b. ClassA**
- ClassB**
- c. ClassB
- d. None of the above

***Explanation for Faculty:***

*By instantiating an object of type ClassB, the main method of ClassB invokes its constructor, in which there is an implicit call to base class, thus calling the constructor of ClassA printing “ClassA”. Then, it goes back to the calling constructor in the subclass printing “ClassB”.*

63) Which of the following is true about Multiple Inheritance?

- a. C# does not support Multiple Inheritance.
- b. A class can inherit multiple classes.
- c. A class can inherit one class together with implementing multiple interfaces.**
- d. None of the above

64) What is the output of the program below?

```
class Constructor1

{
 static Constructor1()
 {
 Console.WriteLine("\nStatic constructor called");
 }
 public Constructor1()
 {
 Console.WriteLine("\nInstance constructor called");
 }
}

class Constructorexp
{
 public static void Main()
 {
 Constructor1 c1 = new Constructor1(22);
 Console.ReadLine();
 }
}
```

- a. **Static Constructor called  
Instance Constructor called**
- b. Instance Constructor called  
Static Constructor called
- c. Error in the program
- d. None of the above

65) What is the output of the program below?

```
class Constructor1
{
 int x;

 static Constructor1()
 {
 Console.WriteLine("\nStatic constructor called");
 }
 public Constructor1(int x1):this()
```

```
{
 x = x1;
 Console.WriteLine("\nInstance cons :x={0}", x);
}
private Constructor1()
{
 Console.WriteLine("\nPrivate constructor called");
}
}

class Constructorexp
{
 public static void Main()
 {
 Constructor1 c1 = new Constructor1(22);
 Console.ReadLine();
 }
}
}
```

- a. **Static Constructor called  
Private constructor called  
Instance Cons x=22**
- b. Instance Constructor called  
Static Constructor called
- c. Error in the program
- d. None of the above

66) What is the output of the program below?

```
Class DemoClass
{
 Static DemolInterface
 {
 Class SubDemoClass
 {
 }
 }
}
Class Demo
{
 public static void Main()
 {
 DemoClass.DemolInterface.SubDemoClass D1=new
 DemoClass.DemolInterface.SubDemoClass();
 Console.WriteLine("Object Created");
 Console.ReadLine();
 }
}
```

- a. Prints object created
- b. Compile time error**
- c. Runtime error
- d. None of the above

67) What is the output of the program below?

```
Interface TestInterface
{
 Int i=22;
}
Class Demo
{
 Public static void Main()
 {
 Console.WriteLine("Prints"+TestInterface.i);
 }
}
```

- a. Prints 22
  - b. Compile time error**
  - c. Runtime error
  - d. None of the above
- 68) Predict the output of the program below.

```
Class StringDemo
{
 Public static void Main()
 {
 String str="AAA";
 StringBuilder stringB=new StringBuilder(s1);
 Console.WriteLine(stringB.Equals(str)+"," str.Equals(s1));
 Console.ReadLine();
 }
}
```

- a. True, True
- b. False, False**
- c. True, False
- d. False, True

1. What are the workflow authoring styles supported by WWF

Choose two most appropriate option

- a) Base class library
- b) Entity Style
- c) Random Style
- d) Data-driven style

**Answer: a,d**

2. Identify the option which follows the correct order of Action

- 1. Obtain the Data source.
- 2. Execute the query.
- 3. Create the query

Choose most appropriate option

- a) 1,2,3
- b) 3,2,1
- c) 1,3,2
- d) 3,1,2

**Answer: c**

3. \_\_\_\_ is a process in which a Web application accepts data from a user and processes it

Choose most appropriate option.

- a) Page Init
- b) Page Load
- c) ASP.NET
- d) Page Posting

**Answer: d**

4. The class that encapsulates the event information should be derived from \_\_

Fill in the blank with an appropriate option

- a) System.EventArgs
- b) System.EventHandler
- c) System.Delegate
- d) System.componentModel.EventDescriptor

**Answer: a**

5. What are the different components of LINQ?

Choose four appropriate options.

- a) LINQ to Objects
- b) LINQ to XML
- c) LINQ to SQL
- d) LINQ to DataSet
- e) LINQ to Datatable
- f) LINQ to DataRow

**Answer: a b c d**

6. The specific protocols and serialization formats that are used to support successful communication with the service

Choose most appropriate option

- a) Operation Contract
- b) Service Contract
- c) Fault Contract
- d) Data Contract
- e) All of the above
- f) None of the above

**Answer: b**

7. Consider the enumeration below enum ThreadPriority { Lowest, BelowNormal, Normal, AboveNormal, Highest }

Choose two appropriate options

- a) Threadpriority becomes important only when multiple threads are simultaneously active
- b) Lowest and Highest are not part of this enumeration
- c) A thread's Priority property determines how much execution time it gets relative to other active threads in the operating system

**Answer: a c**

8. In Memory mapping, which class signifies a randomly accessed view of a memory-mapped file

Choose most appropriate option

- a) MemoryMappedViewStream
- b) MemoryMappedViewAccesser
- c) CreateViewAccessor
- d) MemoryMappedFileView
- e) None of the above

**Answer: b**

9. In WPF, which layout control aligns the child controls to the edges of panel

Choose most appropriate option

- a) StackPanel
- b) DockPanel
- c) GridPanel
- d) CanvasPanel
- e) None of the above

**Answer: b**

10. A \_\_\_ expression is an anonymous function that can contain expressions and statements and can also be used to create delegates or expression tree types

Choose the appropriate option

- a) Join
- b) XML
- c) Data
- d) lambda
- e) SQL

**Answer: d**

11. Which of the below are invalid serialization attributes ?

Choose two most appropriate options.

- a) XmlRootElement
- b) XmlAttribute
- c) XmlElement
- d) XmlElementName

**Answer: a d**

12. \_\_\_\_\_ provides a means of reading a forward-only stream of rows from a SQL server database.

Fill in the blank with an appropriate option

- a) SqlDataReader
- b) Dataset
- c) DataTable
- d) Dataview

**Answer: a**

13. During a Jagged Array practice session, Shruthi wrote following code:

```
int[][] myarray= new int[][]{3};
myarray [0]=new int[3];
myarray [1]=new int[4];
myarray [2]=new int[5];
```

IDE continued to show an error for this Jagged Array construction According to you which line is causing this error?

Choose most appropriate option

- a) int[][]myarray new int[][3];
- b) myarray [0]=new int[3];
- c) myarray [1]=new int[4];
- d) myarray [2]=new int[5];

**Answer: a**

14. Consider the following code and identify the attribute to be added to make the Name a property of Employee type in the data contract

[DataContract]

Public class Employee

{

```
private string m_Name;
public string Name { get { return m_Name; } set { m_Name = value; } }
```

}

Choose most appropriate option

- a) [DataMember]
- b) [DataService]
- c) [DataAttribute]
- d) [DataProperty]

**Answer: a**

15. Please select the two correct statements for XML document:

Choose two appropriate options

- a) XSD is the XML-based alternative of DTDs having the same purpose of DTDs but more powerful and extensible

- b) DTD is the XML-based alternative of XMLs having the same purpose of XMLs but more powerful and extensible.
- c) DTD is the older standard. It is most probable that XSD will replace DTD for validating XML Documents.
- d) XSD is the older standard. It is most probable that DTD will replace XSD for validating XML Documents.

**Answer: a c**

16. Rahul is trying to use StringBuilder class in a program, but he is getting error. To use the StringBuilder class which namespace he should include in the program

Choose most appropriate option

- a) System.String
- b) System.Globalization
- c) System.io
- d) System.Builder
- e) None of the above

**Answer: e**

17. please select the correct task to prevent possible code injections

choose three appropriate options

- a) Client side validation need to be done by Java Script
- b) Don't store sensible data into cookies
- c) Don't use hidden boxes to hold data
- d) Don't depend on client side javascript validation

**Answer: b c d**

18. Which of the following statement(s) is/are true about the operator overloading?

Choose most appropriate option

- a) Binary operators can be overloaded
- b) The cast operator cannot be overloaded, but you can define new conversion operators

c) Unary operators can be overloaded.

d) All of the above

**Answer: d**

19. The goal of \_\_\_\_ is to decrease the amount of code and maintenance required for data-oriented applications

Choose the appropriate option

a) LINQ to C#

b) LINQ to Entities

c) LINQ to Database

d) LINQ to XML

**Answer: b**

20. In the .NET Framework, where is the version information of an assembly stored?

Choose most appropriate option

a) Manifest

b) Visual Source Safe

c) Common type System

d) Version Control

**Answer: a**

21. Identify drawbacks of the Design Patterns from the below mentioned options

Choose two appropriate answers

a) Patterns do not lead to direct code reuse

b) Patterns are deceptively simple

c) Teams may not suffer from pattern overload

d) Maintainability and reusability

**Answer: a b**

22. This event is raised by the page object. This event is used to complete all tasks that require initialization

Choose the appropriate option

- a) PreInit
- b) PreLoad
- c) Init
- d) InitComplete
- e) LoadComplete

**Answer: d**

23. A class source-code file that is compiled at run time. These classes can be: HTTP Module, HTTP Handler. Can also be a code-behind file for an ASP.NET page or a stand-alone class file containing application logic- find the extension of these files above

Choose most appropriate option

- a) .config
- b) .cs, .jsl, .vb
- c) .licx, .webinfo
- d) .resources, .resx

**Answer: b**

24. which of the following does an assembly contain ?

Choose most appropriate option

- a) Manifest type metadata, Resources, MSILcode
- b) Manifest, type metadata
- c) Manifest, type metadata, resources
- d) Manifest

**Answer: a**

25. Which Method is used to create a MemoryMappedViewAccessor that maps to a view of the memory-mapped file

Choose most appropriate option

- a) MemoryMappedViewAccesser()
- b) MemoryMappedViewStream()
- c) CreateViewAccessor()
- d) CreateMemoryMappedViewAccessor()

**Answer: c**

26. Which of these namespaces handle the following information Language-Country/ Region -Calendars in use Format pattern for dates -Currency

Choose most appropriate option.

- a) System.String
- b) System.Globalization
- c) System.IO
- d) System.Reflection

**Answer: b**

27. WPF Which control n the WPF application has a property GroupName ?

Choose most appropriate option

- a) CheckBox
- b) RadioButton
- c) ComboBox
- d) All of the above

**Answer: b**

28. In an interview Akshay was asked to evaluate following code and determine the Output.

```
class Program
{
 static Program()
 {
 int number= 100; int denominator= intParse("0");
 }
}
```

```
int result = number /denominator; Console writeLine(result); }

}

class MyClass { static void Main() { Program program= new Program(); } }
```

According to you, what should be the output of this code? Choose most appropriate option

- a) System.DivideByZeroException
- b) System.TypeInitializationException
- c) System.InvalidCastException
- d) There won't be any exception, result would get printed.

**Answer: b**

29. Shruthi is working as a developer. She has to write the code to Create a ConnectionString. Which of the following parameter of ConnectionString she should use to specify the name of the database ?

Choose two appropriate options.

- a) Provider
- b) Initial Catalog
- c) Database
- d) Data Source

**Answer: b c**

30. Which of the following is/are Statement(s) related to interface ?

Choose most appropriate option

- a) Interface is a type whose members are all public and abstract by default
- b) Interface itself can inherit other interfaces
- c) To implement an interface, class uses the same syntax that is used for inheritance.
- d) All the above

**Answer: d**

31. True/False: XML serializes only the public properties and private fields of an object.

Choose most appropriate option

a) TRUE

**b) FALSE**

**Answer: b**

32. Refer to the below code and Identify the missing statements.

**[ServiceContract]**

**Public interface IHello**

{

**void SayHello(string name);**

}

Choose most appropriate option.

- a) **[OperationContract] attribute needs to be included about the SayHello method.**
- b) [DataMember] attribute needs to be included about the SayHello method.
- c) [ServiceContract] attribute needs to be included about the SayHello method.
- d) None of the above.

**Answer: a**

33. To execute the below code successfully, which namespace to be included

Using System;

```
class MyClass { static void Main(String[] args) { Parallel.For{21, 31, i => {Console.WriteLine(i);}}; } }
```

choose most appropriate option

- a) System.Threading
- b) System.Threading.Tasks**
- c) System.Linq
- d) Using System.Collections.Concurrent

**Answer: b**

34. Consider the following code and identify the statements which are true?

using System;

```
using System.Linq;

class OrderDemo {Static void Main(){String[] englishletters={"d", "c", "a", "b"};

var sorted = from englishletter in englishletters orderby englishletter select englishletter;

foreach(string value in sorted) { Console.WriteLine(value);}}}
```

Choose two appropriate options.

- a) Englishletters is an unsorted array
- b) Sorted is an IEnumerable <String>
- c) The output will be in the descending order
- d) The foreach loop is responsible for sorting the englishletters

**Answer: a,b**

35. Which of the following substantiates the use of stored procedure?

Choose most appropriate option.

- a) The number of requests between the server and the client is reduced.
- b) The execution plain is stored in the cache after It is executed the first time
- c) .Stored procedures accept parameters.
- d) You can bypass permission checking on stored procedure.

**Answer: b**

36. \_\_\_\_\_ is the process of converting the state od an object into a form that can be persisted or transported.

Fill in the blank with an appropriate option.

- a) Delegate
- b) **Serialization**
- c) Events
- d) Object Initializer

**Answer: b**

37. Samriti needs to create a UML Diagram that can depict the user requirements scenarios in which your system or application interacts with people, organizations or external systems. Which diagram should she be using?

Choose most appropriate option

- a) **Use Case Diagram**
- b) Class Diagram

- c) Object Diagram
- d) Sequence Diagram

**Answer: a**

38. Rohit wanted to print the SQL server name of his system. Which code should use in SQL server name?

Choose two most appropriate options.

- a) **Select @@servername**
- b) **print@@servername**
- c) select@@server
- d) print@@server

**Answer: a,b**

39. In WWF, \_\_\_\_\_ is the interaction between the Host processes and a specific activity in an specific workflow instance.

Choose most appropriate option.

- a) Local Communication
- b) Compensation
- c) **Correlation**
- d) Serialization

**Answer: c**

40. How the rules or conditions expressed in WWF to implement business logic

Choose most appropriate option

- a) Conditions can be articulated as declarative, or defined in code
- b) Rules consist a condition statement and collections of actions that are not performed based on the result of the condition
- c) Rules are expressed as an XML file
- d) **a & c**
- e) a & b & c

**Answer: d**

41. Which of the following will legally declare a construct and initialize an array?

Choose most appropriate option.

- a) char myArray[] = {'a', 'b', 'c'};

- b) char myArray[] = {a ; b; c; };
- c) char myArray[] = {'a'; 'b'; 'c');
- d) char [ ] myArray= {'a', 'b', 'c'};**

**Answer: d**

42. Web Server provides a detailed description of the extensions, filters, and script mapping

Choose the appropriate option

- a) Internet Server Active Programming Interface (ISAPI)
- b) Internet Served Application Programming Integration (ISAPI)
- c) Internet Server Application Programming Interoperability (ISAPI)
- d) Internet Server Application Programming Interface (ISAPI)**

**Answer: d**

43. A jagged array is an array of arrays, and therefore its elements are \_\_\_\_\_.

Fill in the blank with an appropriate option.

- a) Value types
- b) Reference types**
- c) Both Value types and Reference types

**Answer: b**

44. Which of the following is true about ADO.NET?

Choose most appropriate option.

- a) ADO.NET is an object oriented set of libraries that allows you to interact with data sources.
- b) ADO.NET classes are found in System.Data.dll.
- c) ADO.NET classes are integrated with XML classes.
- d) ADO.NET contains .NET Framework data provider for connecting to a database.
- e) All of the above.**

**Answer: e**

45. Identify the statements which are in Camel Case.

Choose the two appropriate options.

- a) Public void Show(string bookName){...}**
- b) totalAmount**
- c) BlueColor
- d) Public event EventHandler ClickEvent

**Answer: a,b**

46. Which of the following are facts about Non-persistence memory mapped files?

Choose most appropriate option

- a) These files are memory-mapped files that are associated with a source file on a disk.
- b) When the last process has finished working with the file, the data is saved to the source file on the disk.
- c) These memory-mapped files are suitable for working with extremely large source files.
- d) These files are suitable for creating shared memory for inter-process communications**

**Answer: d**

47. LINQ relied on the concepts of extension of extension methods, anonymous types, anonymous methods and \_\_\_\_\_.

Fill in the blank with an appropriate option.

- a) Lambda expressions**
- b) Xml expressions
- c) Data expressions
- d) Sql expressions

**Answer: a**

48. What are the services will be provided by Windows Workflow – Foundation?

Choose two most appropriate option

- a) Transaction Services**
- b) Migration Services
- c) Scheduling Services**
- d) Security services

**Answer: a,c**

49. Are the following statements true or false?

Statement 1: A Task is a schedulable unit of work. Statement

2: Task enqueued to a TaskScheduler.

- a) Both statements are true.**
- b) Both statements are false.
- c) Statement 1 is false and statement 2 is true.
- d) Statement 2 is false and statement 1 is true.

**Answer: a**

50. Which of the following apply to constructor?

Choose three appropriate options.

- a) Constructors are methods that set the initial state of an object
- b) Constructors cannot return a value, not even void
- c) Constructors can be inherited
- d) If the class does not explicitly declare a constructor, it will default to a no parameter, do nothing constructor

**Answer: a, b, d**

51. What will be the output of the below program using System;

```
using System.IO;

class Program

{ Static void Main(string[] args)

{ StreamWriter sw = File.CreateText("C:\\accenture.txt");

try { sw.WriteLine("Welcome to Accenture");}

catch(IOException e){ Console.WriteLine(e.Message);}

finally{ if(sw != null) sw.Close();}}}
```

**Choose most appropriate option**

- a) Accenture.txt file is created in C: drive
- b) IOException will be thrown
- c) Unhandled Exception
- d) Completetime Error

**Answer: a**

52. Shruthi is working on the code below. When she executes this code she is facing this error – using directive error.

Which of the option will resolve this error?

```
Int[] numbers = new int[7] {0,1,2,3,4,5,6};

var numQuery = from num in numbers where (num % 2) == 0 select num;

foreach (int num in numQuery) {Console.Write("{0}", num);}
```

Choose most appropriate option

- a) She must use the System.Linq namespace
- b) She must use the System.Linq.Expressions namespace
- c) She must revise her Linq query
- d) None of the above

**Answer: a**

53. With respect to generic concept, developers can create which generic item?

Choose three appropriate options.

- a) Generic constant
- b) Generic class
- c) Generic event
- d) Generic delegate

**Answer: b,c,d**

54. Radha wants to sort data stored in an array. She doesn't want to work on the sorting functionality. Do we have any provision in the .NET framework FCL to help her in sorting?

Choose most appropriate option

- a) Yes, she can use System.Sory(array)
- b) Yes, she can use System.Data.Sort(array)
- c) Yes, she can use System.Array.Sort(array)
- d) No, she need to write the sort functionality

**Answer: c**

55. Error handling in WCF service is handled by \_\_\_\_\_.

Choose most appropriate option.

- a) Fault Contract
- b) ServiceContract
- c) DataContract
- d) MessageContract

**Answer: a**

56. Which of the options is valid with respect to below statements

Statement1: StringBuilder saves time and memory by not creating a new string each time an operation is performed on a string.

Statement2: System.Math class provides constants and static methods for trigonometric, logarithmic, and assertion functions.

Choose most appropriate option.

- a) Statement1 is True. Statement2 is false
- b) Statement1 is False. Statement2 is True
- c) Statement1 is False. Statement2 is False
- d) Statement1 is True. Statement2 is True

**Answer: a**

57. Identify correct syntax for declaring indexer.

Choose most appropriate option.

- a) public int this[int index] { get{} set{} }
- b) public int [int index]this { get{} set{} }
- c) public this[int index] { get{} set{} }
- d) public this[int index] int { get{} set{} }

**Answer: a**

58. A/An \_\_\_\_\_ that does not have a WHERE clause produces the Cartesian product of the tables involved in the join.

Choose the appropriate option

- a) Equi Join
- b) Inner Join
- c) Self Join
- d) Cross Join

**Answer: d**

59. Arun wants to retrieve result using a query “select count(\*) from employee”. Which is most appropriate SqlCommand method for his requirement

Choose most appropriate option

- a) Execute Reader
- b) ExecuteQuery
- c) ExecuteNonQuery
- d) ExecuteScalar

**Answer: d**

60. CREATE VIEW [dbo].[viewmyTable] AS SELECT D.DeptName, D.Location, E.Name FROM Department  
D LEFT OUTER JOIN Employee E ON D.DeptID = E.DeptID GO

Predict the output, when the above query executed?

Choose most appropriate option

- a) Commands execute successfully
- b) Incomplete query
- c) Syntax error

**Answer: a**

61. Which of the following are True for Workspace

Choose two appropriate options

- a) Workspace is a folder created within the local system which maps a project in the source control.s
- b) Files within the source control which needs changes, should be first loaded into the workspace of the local system. Any changes made to the files are stored in the local workspace.
- c) Only one workspace can be maintained for a single project in the source control.
- d) Files need to be checked-out in order to upload changes into source control.

**Answer: a,b**

62. Visibility qualifier is used for which off the following?

Choose most appropriate option.

- a) Specifying different visibility for the get and set accessors of a property or an indexer.
- b) Setting the visibility off the accessor get and set to public even though the property visibility is set to protected.
- c) Setting the visibility of the accessor and set to public even though the property visibility is set to internal.
- d) All off the above.

**Answer:a**

63. Select the two correct two statements for xml schema(XSD)

Choose most appropriate option.

- a) The <schema>elements is the root element for XSD.

- b) Has data types and namespaces, like DTDs.
- c) Elements in schemas are divided into three types: Simple Elements Mixed Elements Complex Elements.
- d) XSD is written similarly to XML as XSD makes use of XML syntax, hence most of the rules to XML apply to XSD.**

Answer: a,d

64. State true or false for the statements for design patterns.

Statement 1: Prototype-A fully initialized instance to be copied or cloned.

Statement 2: Singleton-A class of which only a multiple instances can exist.

Choose most appropriate option.

- a) All the statements are true.
- b) All the statements are false.
- c) Statement1 is true and statement2 is false.**
- d) Statement2 is true and statement1 is false.

Answer: c

65. What is the .NET Collection class that allows an element to be accessed using a unique key?

Choose most appropriate option.

- a) ArrayList
- b) StringCollection
- c) Stack
- d) Hashtable**

Answer: d

66. Rajesh needs to copy only specific range of elements from MyArray to copyMyArray. He is using following code.

```
Int[] myarray= new int[3] {20,19,21};
```

```
Int[] copyarray= new int[3];
```

```
Array.Copy(myarray,copyarray,1);
```

Would this code give him desirable Output?

Choose most appropriate option.

a) Yes

b) No

**Answer:a**

67. Consider the following statements and identify the WCF program 1,These are programs that consume the services 2.They are normally the ones the initiate the messaging to the service.

Choose most appropriate option.

a) Message

**b) Client**

c) Intermediates

d) None of the option

**Answer:b**

68.Which of the below syntax is correct to define operator method or to perform operator overloading?

Choose most appropriate option.

a) Public static op(arglist) {}

b) Public static returnvalue op(arglist){}

**c) Public static returnvalue operator op(arglist){}**

d) All of the above

**Answer:c**

69. Identify two conditions from the following that need to be met for multicast delegates.

Choose most appropriate option.

**a)None off the parameters of the delegate is an output parameter.**

**b)The return type of the delegate is void.**

c)The parameter o the delegate is an output parameter

**Answer:a,b**

70. What is /are the different component(s) off LINQ?

Choose most appropriate option.

- a) LINQ to Objects
- b) LINQ to XML
- c) LINQ to SQL
- d) LINQ to Entity
- e) All of the above**

**Answer: e**

71.Identify the description of @@IDENTITY.

Choose most appropriate option.

- a) Returns the error number for the last Transact-SQL statement executed.
- b) Returns the last -inserted identity value.**
- c) Returns the number of rows affected by the last Statement.

**Answer:b**

72.Identify the list off Common Exception Classes

Choose most appropriate option.

- a) System.StackException
- b) System.NullReferenceException**
- c) System.ArrayTypeMismatchException**
- d) System.TypeMisMatchException
- e) System.InvalidCastException**

**Answer:b,c,e**

73. Read the statement below and identify the workflow component This is the act of undoing any actions that were performed by a successfully completed activity because of an exception that occurred elsewhere in a workflow

Choose most appropriate option.

- a) Activity

**b) Compensation**

- c) Service
- d) Workflow persistence

**Answer:b**

74. John is developing an application for ABC company in which he wants to combine application UIs,2D graphics,3D graphics, documents and multimedia in one single framework. Which component can he use?

Choose most appropriate option.

**a)WPF**

- b)WCF
- c)Linq
- d)OOPS

**Answer: a**

75.What is/are the advantages of LINQ over stored procedures?

Choose most appropriate option.

- a)Debugging- it is really very hard to debug the stored procedure but as LINQ is part off .NET, you can use visual studio's debugger to debug the queries.
- b)Deployment- With stored procedures, we need to provide an additional script for stored procedures but with LINQ everything gets compiled into single DLL hence deployment becomes easy.
- c)Type Safety- LINQ is type safe, so queries errors are type checked at compile time.it is really good to encounter an error when compiling rather than runtime exception

**d)All off the above**

**Answer: d**

76. which of the below are valid Statements about DataReader and Data set

Choose most appropriate option.

- a) DataReader reads all the records at a time and it is used in multiple databases.
- b) DataSet always reads one record at a time and it moves into a forward direction.

**c) DataReader is a connected Architecture**

**d) Dataset is a collection of in memory tables**

**Answer:c,d**

77. Identify the functions of common type System(CTS)

Choose most appropriate option.

- a) They form the fundamental unit off deployment, version control, reuse, activation scoping, and security permissions
- b) Most off the members defined by types in the .NET framework class Library are CLS-compliant
- c) Establishes a framework that helps enable cross-Language integration, type safety, and high performance code execution**
- d) Provides an object –oriented model that supports the complete of many programming languages**

**Answer:c,d**

78. Identify the tasks a user is able to perform in Source Control Explorer

Choose most appropriate option.

- a) Create/Rename/Delete files and folders
- b) Check in/out files
- c) Get latest/Specific version
- d) All of the above**

**Answer:d**

79. \_\_\_\_\_ Represents the standard input, output, and error streams ffor console applications. This class cannot be inherited.

Fill the blank with appropriate option.

**a) Console class**

b) TextWriter class

c) Text class

**Answer:a**

80.What is the namespace for “Task” class?

Choose most appropriate option.

a) System.Tasks

**b) System.Threading.Tasks**

C) System.Diagnostics.Tasks

d) System.Dynamic.Task

**Answer:b**

81.State true or false for the below statements.

Statement1 : Multicast delegates are used extensively in event handling.

Statement2 : Delegation can be used to define callback methods

Choose most appropriate option.

**a) Statement1 and Statement2 are true**

b) Statement2 is true and Statement2 is false

c) Statement1 is true and Statement2 is false

d) Statement2 and Statement1 are False

**Answer:a**

82.\_\_\_\_\_namespace provides classes for using a memory mapped file,which maps the contents of a file to an applications logical address space.

Fill with the most appropriate option.

a)System.MemoryMappedFile

b)System.MemoryMappedFiles

**c)System.IO.MemoryMappedFiles**

d)System.IO.Memory

**Answer:c**

83.Identify the WCF contract considering the following statement

1. WCF contracts defines implicit contracts for built in data types like string and int.

2. This contract defines which data types are passed to and from the service

Choose most appropriate option.

a) Service Contract

b) Fault contact

**C) Data Contract**

d) Message contact

**Answer:c**

84. Which of the below statements are correct about Indexers

Choose most appropriate option.

a) Indexers are location indicators

b) Indexers are used to access class objects

c) Indexer is a form of property and works in same way as a property

d) a&b

e) b&c

**f) a,b&c**

**Answer:f**

85. \_\_\_\_\_ and \_\_\_\_\_ methods of a delegate helps to process delegate asynchronously

Fill the blank with appropriate option.

**a) BeginInvoke(),EndInvoke()**

b) InvokeBegin(),InvokeEnd()

c) Begin(),End9)

d) BeginInvokeDelegate(),EndInvokeDelegate()

**Answer:a**

86.Which option gets the version of the selected file/folder specific to date, changeset, label,or workspace version?

Choose most appropriate option.

a)GetSpecificFile

b)GetLatestVersion

c)GetSelectVersion

**d)GetSpecificVersion**

**Answer:d**

87.All query operations of LINQ consist of three district actions

Choose most appropriate option.

- a) 1. Obtain the data source 2. Declare the Data source 3.Excute the data source
- b) 1. Declare the data source 2.Initialize the query 3. Execute the query
- c) 1. Declare the Data source 2. Create the data source 3 .Execute the Data source
- d) 1. Obtain the data source 2.Create the query 3. Execute the query**

**Answer:d**

88.Rajesh is implementing an ASP.NET page. The page include a method named GetProjectAllocation that returns dataset. The Dataset includes a datatable named ProjectAllocation. Rajesh need to show the data in GridView control named GridView1

Choose most appropriate option.

- a)Gridview1.DataTable=GetProjectAllocation();
- b)GridView1.DataTable=GetProjectAllocation();GridView1.DataBind();
- c) GridView1.DataSource=GetProjectAllocation();GridView1.DataBind();**
- d) GridView1.DataSourceld=GetProjectAllocation();GridView1.DataBind();

**Answer:c**

89. \_\_\_\_\_ is a pre defined, reusable routine that is stored in a database

Fill the blank with most appropriate option.

- a) Function
- b) Stored Procedure**
- c) View
- d) Joins

**Answer:b**

90.Which of the following are True for Workspace

Choose two appropriate options

- a) Workspace is a folder created within the local system which maps a project in the source controls.
- b) Files within the source control which needs changes, should be first loaded into the workspace of the local system. Any changes made to the files are stored in the local workspace.
- c) Only one workspace can be maintained for a single project in the source control.
- d) Files need to be checked-out in order to upload changes into source control.

**Answer: a,b**

91. In LINQ , all the core types are defined in \_\_\_\_\_

Choose most appropriate option.

- a) System.Linq.XML and System.Linq.Expressions
- b) System.Linq and System.Linq.XML
- c) **System.Linq and System.Linq.Expressions**
- d) System.XML.Linq and System.Linq.Expressions

**Answer : C**

92. The \_\_\_\_\_ hosting option is integrated with ASP.NET and uses the features these technologies offer, such as process recycling , idle shutdown ,process health monitoring , and message based activation.

Choose most appropriate option

- a) **IIS**
- b) Windows Services
- c) WAS
- d) Self Hosting
- e) All of the above
- f) None of the above

**Answer : A**

93. What are true about Static Constructors

Choose two appropriate options

- a) Static variable get instantiated after the static constructor
- b) Static constructors provide the flexibility of statically initializing static variables
- c) Static constructors have access to static members of theirs class only
- d) A static constructors does not have parameters and access modifiers cannot be applied to it

**Answer : C, D**

94. Which of the below statement(s) are valid in Operator Overloading?

Choose most appropriate option

- a) The conditional logical operators cannot be overloaded
- b) The array indexing operator can be overloaded

- c) The comparison operators cannot be overloaded
- d) All of the above
- e) None of the above

Answer : A

95. You want to make a configuration setting change that will affect only the current web application. Which file will you change?

Choose most appropriate option

- a) Web.config
- b) Machine.config
- c) Global.asax

Answer : A

96. Testing which attribute should be used to run code before the first test is run in the class?

Choose most appropriate option

- a) TestInitialize()
- b) TestClass()
- c) ClassInitialize()
- d) TestStart()

Answer : C

97. VSTS is also used for automated unit testing of components and regression testing.

State TRUE or FALSE

- a) FALSE
- b) TRUE

Answer : TRUE

98. Which access modifier cannot be used with data members of a structure?

Choose most appropriate option

- a) Public
- b) Protected
- c) Internal
- d) Private

Answer : B

99. Anand has created a master page named Plant.master. the master page uses the following page directives.

```
<%@ Master Language="c#" Src("~/Plant.master.cs" inherits="Plant" %>
```

He needs to create a content page that uses the master page as a template. In addition , he needs to use a single master page for all devices that access the web site. Which code segment should be use ?

Choose most appropriate option

- a) <%@ Page Language="c#" Theme="Plant" Skin="Plant.cs"%>
- b) <%@ Page Language="c#" MasterPageFile="~/Plant.master" %>
- c) <%@ Page Language="c#" device:MasterPageFile="~/Plant.master" %>
- d) <%@ Page Language="c#" de:MasterPageFile="~/Plant.master" %>

Answer : B

100. CREATE VIEW [dbo].[viewmyTable] AS SELECT D.DeptName , D.Location , E.Name FROM Department D JOIN Employee E ON D.DeptID = E.DeptID GO Predict the output , when the above view is executed ?

Choose most appropriate option

- a) A view will be created by selecting deptname , location from the department table and employees name from the employee table .
- b) Syntax error
- c) Incomplete query
- d) A view will be created by selecting deptname , location and name from the department table.

Answer : A

101. Are the methods below a valid overload

```
Public int Sum(ref int a , ref int b)
Public int Sum(out int a , out int b)
```

Choose most appropriate option

- a) Yes
- b) No

Answer : No

102. State true or false for the below statements.

Statements1. Extension Methods: Which gives us the capabilities to asses our own custom methods to data types without deriving from the base class.

Statement2. Object Initializer: allows you to pass in named values for each of the public properties that will be used to initialize the object.

Choose most appropriate option

- a) Statement 1 and statement 2 are true.
- b) Statement 1 and statement 2 are false.
- c) Statement 1 is false and statement 2 is true.
- d) Statement 2 is false and statement 1 is true.

Answer : A

103. True/False : Fault Handling is a method of the workflow runtime engine that synchronously handles the exceptions that occur in the activities

Choose most appropriate option

- a) TRUE
- b) FALSE

Answer : FALSE

104. Which of the following are true about Delegates?

Choose three appropriate options

- a) A delegate can reference a method only if the signature of the method exactly matches the signature specified by the delegate type
- b) A delegate allows the programmer to encapsulate a reference to a method inside a delegate object
- c) Delegates are similar to function pointers
- d) Generally useful way for objects to signal state changes that may be useful to clients of that object.

Answer : A ,B ,C

105. Amulya has created following class:

```
Public class Employee { public int EmployeeCode{ get; set;} public string EmployeeName{get; set;} public int EmployeeAge{get; set;}}
```

Please select correct code for initializing an object by using Object initializers.

Choose most appropriate option

- a) Employee emp = new Employee(EmployeeCode=111;  
EmployeeName="Raghav" ;EmployeeAge=26;);
- b) Employee emp = new Employee{EmployeeCode=111,  
EmployeeName="Raghav",EmployeeAge=26};
- c) Employee emp = new Employee(){EmployeeCode=111;  
EmployeeName="Raghav";EmployeeAge=26;};
- d) Employee emp = new Employee(){EmployeeCode=111,  
EmployeeName="Raghav",EmployeeAge=26};

Answers : B

106. Identify which statements are false about windows Presentation foundation(WPF)

Choose two appropriate options

- a) Used for standalone and browser hosted applications
- b) Uses XAML markup to implement the appearance of an application
- c) The service-oriented design results in distributed systems that runs between services and clients
- d) Provides a programming model for building workflow-based applications in windows

Answer: C , D

107. How do you specify a constraints for the type to be used in a generic class

Choose most appropriate option

- a) Class Program where T: MyInterface
- b) Class Program : MyInterface
- c) Class Program constraint T : MyInterface
- d) Class Program where T : MyInterface

Answer: A

108.       VIEW [dbo].[viewmyTable] AS SELECT D.Deptname,D.location ,E.Name FROM Department D FULL OUTER JOIN Employee E ON D.DeptID = E.DeptID

Whats the output , when the above query is executed?

Choose most appropriate option

- a) Display all the employees with their Departments .Output contains
- b) The employee names and all the department names present in the database
- c) Syntax error
- d) Incomplete Query

Answer : A

109.       Which is the top .NET class from which everything is derived?

Choose most appropriate option

- a) System.Collections
- b) System.Globalization
- c) System.Object
- d) System.IO

Answer : C

110.       From the following option choose the features of WPF

Choose three appropriate options

- a) Rich Composition
- b) Separation of appearance and behavior
- c) Resolution dependence
- d) Highly customizable

Answer : A , B ,D

111.       WCF host can be IIS or WebService or Console Application

Choose most appropriate option

- a) TRUE
- b) FALSE

Answer : TRUE

112.       Sam is developing an application in which he wants to use child controls are positioned by rows and columns . which layout he can use ?

Choose most appropriate option

- a) Grid
- b) Canvas
- c) Dock panel
- d) Stack panel

Answer : A

113. Identify the code snippet for creating custom exception class

Choose most appropriate option

- a) Class CustomException:ApplicationException{}
- b) Class CustomException : AppException{}
- c) Class ApplicationException : CustomException{}
- d) None of the above

Answer : A

114. Which of the following is true about overloading?

Choose most appropriate option

- a) Overloaded methods must change the argument list.
- b) Overloaded methods can change the return type.
- c) Overloaded methods can change the access modifier.
- d) All of the above.

Answer : D

```
37.using System;
class NamedParameterExample
{
 static void Method(int num1,int num2, int num3=30)
 {
 Console.WriteLine("num1={0}, num2:{1},num3:{2}", num1,num2,num3);
 }
 public static void Main()
 {
 Method(num2:20,num1:10,num3:100);
 }
}
Answer:$mono main.exe
num1=10, num2:20,num3:100
```

```
39.using System;
using System.Collections;
namespace ConsoleApplicationdemo
{
 class Program
 {
 static void Main()
 {
 ArrayList myList = new ArrayList();
 myList.Add(32);
 myList.Add(12);
 myList.Add(22);
 myList.Sort();
 for(int index=0;index<=myList.Count;index++)
 {
 Console.WriteLine(myList[index]+"\t");
 }
 }
 }
}
```

Ans:

12      22      32

41. -----class is used to find object metadata(i.e methods, fields, properties at runtime  
System.type  
System.Assembly  
System.String  
**System.Reflection.**

42. Topic c # sub-topic XML\_Serialisation  
which of the following attribute should be used to indicate the property must not be serialised while  
using JSON serialiser  
XML.Ignore  
IgnoreDatamember  
Ignoreproperty

## JSON ignore

43.Which of the following is false about interface?

No options

1.Topic:.NET;Subtopic:Introduction to Design Documents

Zeenat needs to create a UML Diagram that can depict the user requirements, scenarios in which your system or application interacts with people, organizations or external systems. Which diagram should she be using?

Choose most appropriate option

- i.Object Diagram
- ii.Sequence Diagram
- iii.Class Diagram
- iv.Use Case Diagram

answer : Use Case Diagram

Topic:.Net, Subtopic: Team Foundation Server 2010

2.Multiple workspaces can be maintained for a single project in the source control.

State TRUE or FALSE.

- i.TRUE
- ii.FALSE

answer : false

Topic. NET4.0;Subtopic:LINQ

3.Consider the following code and identify the statements which are true?

```
using System; using System.Linq;
class OrderDemo
static void Main()
string[] englishletters= { "d", "c", "a", "b" };
var sorted from englishletter in englishletters
orderby englishletter select englishletter;
foreach (string value in sorted)
```

- i.The output will be in the descending order
- ii.The foreach loop is responsible for sorting the englishletters
- iii.sorted is an IEnumerable <string>
- iv.englishletters is an unsorted array

Topic:.Net, Sub-Topic: Delegates and Events

4.Consider the following code:

```
using System;
public class A
string name; public A(string name)
this.name = name;
} public void Display(string message)
Console.WriteLine("{0} {1}", name, message);
}
class MainClass
{
```

i.Compilation Error

ii.apple boy

iii.boy apple

iv.boy

answer : boy apple

Topic:.Net4.0, Sub-Topic: SqlServer 2008

5.Which statement finds the rows in the Employee table that do not have Manager? Click on hyperlink to view the EMP Table.

Choose most appropriate option.

i.SELECT EMPNO ENAME MGR FROM EMP WHERE MGR = NULL;

ii.SELECT EMPNO ENAME,MGR FROM EMP WHERE MGR = NULL;

iii.SELECT EMPNO ENAME MGR FROM EM WHERE MGR CONTAINS NULL;

iv.SELECT EMPNO ENAME,MGR FROM EMP WHERE MGR IS NULL;

answer : SELECT EMPNO ENAME,MGR FROM EMP WHERE MGR IS NULL;

Topic: .NET, Sub-Topic: LanguageFundamentals

6.Given the following code:

class SwitchExample

{

public static void Method1(){ Console. WriteLine("in Method1"); }

public static void Method2() { Console.WriteLine("in Method2"); }

public static void Method3() { Console.WriteLine("in Method3"); }

public static void Method4() { Console.WriteLine("in Method4"); }

public static void MethodSwitch(int x)

switch(x)

case 1: Method1();

break; case 2:

break; case 3:

Method2();

Method3();

i.for(int i=1;i<=2;i++) MethodSwitch(i);

ii.for(int i=1;i<=5;i++) MethodSwitch(i);

iii.for(int i=1;i<=4;i++) MethodSwitch(i);

iv.for(int i=1;i<=3;i++) MethodSwitch(i);

answer: for(int i=1;i<=4;i++) MethodSwitch(i);

Topic:.Net, Sub-Topic: CoreUtilities

7.Consider the following code:

using System; using System.Collections.Generic;

using System.Linq; using System.Text;

namespace ConsoleApplication3

class StringDemo

public static void Main()

String str="AAA",s1="AA";

StringBuilder stringB=new StringBuilder(s1);

Console.WriteLine(stringB.Equals(str)+" "+str.Equals(s1));

i. False, False

ii. False, True

iii. True False

iv. True, True

answer : False, False

Topic: Net, Sub-Topic Collection

8.Below is the Collection Interface list with their meaning in unorganized order.

1-Purpose of **Idictionary**: Exposes a method that compares two objects.

2-Purpose of **list**:Defines size, enumerators and synchronization methods for all collections,

3-Purpose of **Icomparer** Represents a collection of key-and-value pairs.

4-Purpose of **Icollection** Represents a collection of objects that can be individually accessed by index.

Choose the best option to organize the above collection Interface and its meaning.

Choose most appropriate option.

i.1-**Idictionary** Represents a collection of key-and-value pairs 2-**list** Exposes a method that compares two objects 3-**comparer** Represents a collection of objects that can be individually accessed by index

4-**Icollection** Defines size, enumerators and synchronization methods for all collections

ii.1-**Idictionary** Defines size, enumerators and synchronization methods for all collections 2-**list**

Exposes a method that compares two objects 3-**Icomparer** Represents a collection of objects that can be individually accessed by index 4-**Icollection** Represents a collection of key-and-value pairs

iii.1 .**Icollection** Defines size, enumerators and synchronization methods for all collections

2-**Icomparer** Exposes a method that compares two objects 3- **IDictionary** Represents a collection of key-and-value pairs 4-**list** Represents a collection of objects that can be individually accessed by index

iv.1-**Idictionary** Represents a collection of key-and-value pairs 2-**list** Defines size, enumerators and synchronization methods for all collections 3-**Icomparer** Represents a collection of objects that can be individually accessed by index 4-**Icollection** Exposes a method that compares two objects.

Answer: 1 .**Icollection** Defines size, enumerators and synchronization methods for all collections  
2-**Icomparer** Exposes a method that compares two objects 3- **IDictionary** Represents a collection of key-and-value pairs 4-**list** Represents a collection of objects that can be individually accessed by index

Topic: .NET Subtopic: Arrays

9.After understanding following code snippet, Sudhir is to determine the output of the following code:

```
int[] myarray = new int[3] {20,19,21};
int[] copyarray= new int[3];
Array.Copy(myarray, 0,copyarray,1, 1);
Console.WriteLine("{0}-{1}-{2}", copyarray[0], copyarray[1], copyarray[2]);
```

According to you, what should be the output?

Choose most appropriate option

i.0-20-0

ii.20-19-0

iii.20-19-21

iv. None of the above, use of unassigned array index results in error.

Answer : None of the above, use of unassigned array index results in error.

Topic:.NET Subtopic: Exception Handling

10.Sudhir wanted to evaluate scenarios where he might encounter the InvalidCastException. He is expecting this exception from the following code:

```
int intvar = 2;
object objvar (object)intvar;
short shortvar (short)objvar; Do you think he will get the expected Exception type?
```

Choose most appropriate option

- i.No
- ii. Yes

answer: no

Topic:.NET, Sub-Topic: C= Features

11.If str1 and str2 are references to two strings, then which of the following is the correct way to compare the two references?

Choose most appropriate option

- i.strcmp(str1, str2)
- ii.str1.Equals(str2)
- iii.str1 is str2
- iv.str1= str2
- v.str1== str2

answer : str1.Equals(str2)

```
183.using System;
using System.Collections;
namespace ConsoleApplicationdemo
{
 class SwitchExample
 public static void Method1()
 {
 Console.WriteLine("in Method1");
 }
 public static void Method2()
 {
 Console.WriteLine("in Method2");
 }
 public static void Method3()
 {
 Console.WriteLine("in Method3"); }
 }
 public static void Method4()
 {
 Console.WriteLine("in Method4");
 }
 public static void MethodSwitch(int x)
 switch(x)
 case 1: break;
 Method1();
 case 2 break, Method2();
 case 3: Method3();
 //
```

options

- for(int 1, 2++) MethodSwitch().
- for(int 1, 3,++) MethodSwitch().
- for(int 1,<=5++) MethodSwitch();
- for(int i=1,i<= 4;i++) MethodSwitch(i),-----Incomplete code

}

184.For long running tasks it is preferable to create your own threads using-----delegate.  
Choose most appropriate option.

1. ThreadCreate
2. ThreadPulse
3. **ThreadPool**
4. ThreadStart

185.static void Main()

```
string[] englishletters= ("d", "c", "a", "b");
var sorted from englishletter in englishletters
orderby englishletter
select englishletter;
foreach (string value in sorted)
Console.WriteLine(value)
}
```

Skills Examiner

Knowledge Management

Choose two appropriate options.

- The output will be in the descending order
- The foreach loop is responsible for sorting the englishletters
- sorted is an IEnumerable <string>
- englishletters is an unsorted array

Topic: NET4.0, Sub-Topic: SqlServer2008

186.Which of the following substantiates the use of stored procedure?

Choose most appropriate option.

- You can bypass permission checking on stored procedure
- The execution plan is stored in the cache after it is executed the first time.
- The number of requests between the server and the client is reduced
- **Stored procedures accept parameters**

Topic: NET, Sub Topic Parallel programming

187.Identify the below option for implementing for loop in parallel program.

Choose most appropriate option.

- For
- **Parallel.for**
- For.parallel
- foreach

Topic: .NET4.0; Subtopic: Exception Handling

189.Dharmendra was trying following code:

```
string[] myArray = { "MDC", "DDC", "PDC", "CDC", "BDC", "HDC" };
object[] myArrayId= myArray;
myArrayId[0]= 5;
Console.WriteLine("{0}", myArrayId[0]);
```

According to you, which of the following exception will he get?

- System.ArrayTypeMismatchException
- System.IndexOutOfRangeException
- System.InvalidCastException
- There won't be any exception

```
190.using System;
class OptionalExample
static void Method(int x=25)
Console.WriteLine('value={0}',n);
}
```

```
static void Main()
Method();
} }

- Value 25
- Value=0
- Value = null
- None of the above

```

1.consider the following program:

```
using system;
class OptionalExample
{
static void Method(int x=25)
{
console.WriteLine("Value={0}",n);
}
static void Main()
{
Method();
}
}
```

What will be output of above program?

- a.Value=25
- b.Value=0
- c.Value=null
- d.None of the above

Ans:None of the above

2.consider the following code and identity the statement which are true?

```
List<String>Vegetables = new List<String>{"Tamatoes","Potatoes","Onions"};s
String MatchingVeggi = Vegetables.Find(Name=>Name.startsWith("o"));
choose three appropriate options
a.Name is the function argument and it could have been named as "V" or "Veg" or anything else
b.Name=> Name.StartsWith("o")is Lambda expression
c.Name=> Name.StartsWith("o")is not Lambda expression
d.The Find function runs the lambda expression against each list item until a match is
```

Ans: options A,B,D

3. For long running tasks it is preferable to create your own thread using \_\_\_\_\_ delegate choose most appropriate option.

- a.ThreadPool
- b.ThreadCreate
- c.ThreadStart
- d.ThreadPulse

Ans: ThreadStart

4. consider the following statements:

statement1-Thread.Join(): This method blocks the calling thread until the thread terminates.

statement2-task.wait(): Task can wait for one or more tasks to end using wait

choose most appropriate option.

- a.statement1 is false statement2 is false
- b.statement2 is false statement2 is true
- c.statement1 is true statement2 is true
- d.statement1 is true statement2 is false

Ans: options C

5. consider the following program:

```
using system;
delegate string myDelegate(string str);
class A
{
 static string str1(string a)
 {
 console.write("Apple");
 return a;
 }
 static string str2(string a)
 {
 console.writeL("boy");
 return a;
 }
}
```

a.compliation error  
b.cat dog  
c.apple boy  
d.apple boy cat dog

Ans: apple boy

6. Dharmendra was trying following code:

```
string[] myArray = {"MDC","DDC","PDC","CDC","BDC","HDC"};
object[] myArrayId = myArrayId[0]);
myArrayId[0]=5;
console.WriteLine("{0}",myArrayId[0]);
According to you which of the following exception will get?
a.There wont't be any exception
```

- b.System.InvalidCastException
- c.System.IndexOutOfRangeException
- d.System.ArrayTypeMismatchException

Ans: There won't be any exception

**Q.** What will be the output of following code snippet, if the value entered by the user is a string like "abc"?

Assume the code is written inside a method of a class.

```
int index;
int value = 100;
int[] arr= new int[10];
try
{
 Console.Write("Enter a number: ");
 index = Convert.ToInt32(Console.ReadLine());
 arr[index] = value;
}
catch (FormatException e)
{
 Console.Write("Bad Format ");
}
catch (IndexOutOfRangeException e)
{
 Console.Write("Index out of bounds ");
}
Console.Write("Remaining program ");
```

### OPTIONS:

- Bad Format
- Remaining program
- Index out of bounds
- Bad Format Remaining program
- Index out of bounds Remaining program

**ANS: Bad Format Remaining program**

**Q.** What will be the output of the following code  
using System;

```
public class Program
{
 public static void Main()
 {
 int[] first ={6,7};
 int[] second = {1,2,3,4,5};
 second = first ;
```

```
foreach(int j in second)
{
Console.WriteLine(j);
}
}
}
```

**OPTIONS:**

- Prints 6 7
- Prints 6 7 3 4 5
- Prints 1 2 3 4 5
- Prints 1 2 3 6 7

**ANS:** Prints 6 7

**Q.** Topic : C#, Sub\_Topic : XML\_Serialization

Which serialization serializes even private access specifier properties ?

**ANS:** You cannot serialize private members using XmlSerializer unless your class implements the interface IXmlSerializable.

**Q.** What will be the output of following program ?

```
using System;
namespace Test_App
{
class SampleClass
{
public void GreetUser()
{
Console.WriteLine("Hello Customer");
}
static void Main(String[] args)
{
global::Test_App.SampleClass sc=new SampleClass();
sc.GreetUser();
Console.ReadLine();
}
}
class SampleClass
{
public void GreetUser()
```

```
{
Console.WriteLine("Hello Premium Customer");
}
}
```

### OPTIONS:

- Hello Premium Customer
- Hello Customer
- Hello Customer, Hello Premium Customer
- Runtime error

### ANS:

```
Q. class Demo
{
 static int x;
 int y;
 Demo()
 {
 x++;
 y++;
 Console.WriteLine(x + " " + y + " ");
 Console.ReadLine();
 }
 static void Main(string[] args)
 {
 Demo d1 = new Demo();
 Demo d2 = new Demo();
 }
}
```

Ans. 1 1

```
Q. class DynamicDemo
{
 public static void Main(string[] args)
 {
 dynamic val1 = 500;
 dynamic val2 = "jyothi";
 val1 = val2;
 Console.WriteLine("val1={0},val2={1}", val1.GetType(), val2.GetType());
 Console.ReadLine();
 }
}
```

Ans. val1=System.String, val2=System.String

Q. The Class which Doesn't allow objects creation, but represents as parent class of child classes, is known as.....

Ans. Abstract

```
1. int? num = 100;
 num = null;
 Console.WriteLine(num.GetValueOrDefault());
```

Ans: 0

```
2. class Program
{
 void Method(int a, int b, out int c, ref int d)
 {
 a = a + 1;
 b = b + 2;
 c = a + b;
 d = c - 1;
 }
 static void Main(string[] args)
 {
 int first = 10, second = 20, third, fourth = 30;
 Program p = new Program();
 p.Method(first, second, out third, ref fourth);
 Console.WriteLine("{0} {1} {2} {3}", first, second, third, fourth);
 }
}
```

Ans: prints 10 20 33 32

```
3. enum Numbers
{
 One = 100,
 Two,
 Three
}
class Program
{
 static void Main()
 {
 Console.WriteLine((int)Numbers.Three);
 }
}
```

Ans: 102

4. Method overriding is a concept related to?

Ans: dynamic polymorphism

```
5. class Test
{
```

```

int num1 = 10;
public Test()
{
}
Console.write(num1+" ");
}
public Test(int num2)
{
}
Console.write(num2)
}
}
class Program
{
public static void Main()
{
Test obj = new Test();
Test obj1 = new Test(10);
}
}

```

Ans: 10 10

6. using System;

```

class Maths
{
public void Add(int num1, int num2)
{
Console.WriteLine((num1 + num2) + " ");
}
public void Multiply(int num1, int num2)
{
Console.WriteLine((num1 * num2) + " ");
}
}
class Program
{
public delegate void MathDelegate(int num1, int num2);
static void Main(string[] args)
{
MathDelegate mathDe1;
Maths mt = new Maths();
mathDe1 = new MathDelegate(mt.Add);
mathDe1 += new MathDelegate(mt.Multiply);
mathDe1(25, 20);
}
}

```

Ans: 45 500

7. In an interview, Sujit was asked to evaluate following code and determine the output

```

class Program
{
static Program()
}

```

```
{
 int number = 100;
 int denominator = int.Parse("0");
 int result = number/denominator;
 Console.WriteLine(result);
}
}
class MyClass
{
 static void Main()
{
```

Ans: System DivideByZeroException

```
8. string name;
public A(string name)
{
 this.name = name;
}
public void Display(string message)
{
 Console.WriteLine("{0} {1}", name, message);
}
}
class MainClass
{
 delegate void myDelegate(string message);
 public static void Main()
 {
 A obj1 = new A("boy");
 myDelegate obj2 = new myDelegate(obj1.Display)
```

Ans: boy apple

```
9. {
 this.name = name;
 public void Display(string message)
 {
 Console.WriteLine("{0} {1}", name, message);
 }
}
class MainClass
{
 delegate void myDelegate(string message);
 public static void main()
 {
 A obj1 = new A("boy");
 myDelegate obj2 = new myDelegate(obj1.Display);
```

```
obj2("apple");
Console.Read();
}
```

Ans: apple boy

```
10. {
 static void Main()
 string[] englishletters= {"d", "c", "a", "b"};
 var sorted = from englishletter in englishletters
 order by englishletter
 select englishletter;
 foreach{string value in sorted}
 {
 Console.WriteLine(value);
 }
}
```

Ans: All four options

- a) english letters is an unsorted array
- b)sorted is an IEnumerable <string>
- c)The foreach loop is responsible for sorting the english letters
- d)The output will be in the descending order

```
11. using System;
public class Program
{
 public static void Main(string[] args)
 {
 try
 {
 int num1 = 5;
 Console.WriteLine(num1);
 try
 {
 int num3 = 5;
 int num4 = 0;
 int num5 = num3 / num4;
 Console.WriteLine(num4);
 }
 catch (DivideByZeroException ex)
 {
 Console.WriteLine("Divide by Zero Exception");
 }
 catch (Exception ex)
 {
 Console.WriteLine("Outer Catch");
 }
 }
 }
}
```

Ans: 5 Divide Zero Exception

Q. In an interview, sujit was asked to evaluate following code and determine the output.

Class program

```
{
Static program()
{
Int number =100;
Int denominator = int.parse("0");
Int result = number/denominator;
Console.WriteLine(result);
}
}
Ans. System.DivideByZeroException
```

Q. Which of the following options are the features of WPF,

Choose three appropriate options.

Ans. Rich Composition, Highly customizable, Separation of appearance and behavior

Q. Poorava has created following class:

Public class Employee

```
{
Public int Employeecode{get;set;}
Public string EmployeeName{get; set;}
Public int EmployeeAge{get;set;}
Please select correct code for initializing an object by using object initializers
```

Ans. Employee emp=new Employee{ EmployeeCode=111, EmployeeName="Raghav", EmployeeAge=26};

Q. Are the following statements true or false?

Statement 1: LINQ provides a unified programming model to different data domains for data management.

Statement 2: Language integrated query is set of framework features for structured type-safe queries.

Choose most appropriate option.

Ans. Both statements are true.

Q. Identify the output for the program below –

Class ExampleDemo

```
{
Public static void main(string[] args)
{
Cosole.WriteLine("River of \nndreams");
Console.WriteLine("so far\nso good");
}
}
Choose most appropriate option.
```

Ans. River of dreams so far so god.....> will display in different line.

Q. Identify the output for the program below

```
Class ExampleDemo
{
 Public static void Main(string[] args)
 {
 Console.WriteLine("River of \n dreams");
 Console.WriteLine("so far\n so good");
 }
}
```

Ans. River of \n dreams so far \n so good.....> will display in different line.

Q. Consider the following code:

```
Using system;
Public class A
{
 This.name=name;
}
Public void display(string message)
{
 Console.writeline("{0} {1}", name, message);
}
```

Ans. Apple boy

Q. Consider the following statements and identify the WCF program

1. These are programs that consume the services
2. They are normally the ones that initiate the messaging to the service.

Choose most appropriate option

Ans. Client

Q. Consider the following code and identify the statements which are true?

```
Using System;
Using System.Linq;
Class orderDemo
{
 Static void demo();
 {
 String[] englishletters = {"d","c","a","b"};
 Var sorted = from English letter in englishletters
 Orderby englishletter
 Select englishletter;
```

Ans. Sorted is an IEnumerable <string>

Englishletters is an unsorted array

Q. Which of the following substantiates the use of stored procedure?

Choose most appropriate option.

Ans. The execution plan is stored in the cache after it is executed the first time.

Q. GAC is a machine-wide code cache that is used to store assemblies that are shared by multiple applications. An assembly can be added to the GAC by using.

Choose most appropriate option.

Ans. Gacutil.exe

Q. Identify the below option implementing for loop in parallel program.

Choose most appropriate option.

Ans. Parallel.For

Q. Which namespace contains classes that can be used to define culture-related information?

Choose most appropriate option.

Ans. System.Globalization

Q. Consider the following statements:

Statement1- Thread.Join(): This method blocks the calling thread until the thread terminated.

Statement2 – task.Wait() Task can wait for one or more tasks to end using wait.

Ans. Statement1 is true Statement2 is True.

1. Please select correct sequence for lifecycle of WCF programming:

1. Build a client application.
2. Define the Service Contract.
3. Host the service in an application.
4. Implement the contract.
5. Configure the service.

Choose most appropriate option.

A.4,5,2,3,1

B.4,2,5,3,1

C.2,4,3,5,1

D.2.4.5.3.1

Answer-2.4.5.3.1

2. Employee emp=new Employee

{

EmployeeCode=100,

EmployeeName="Raj",

EmployeeAge=25

Choose most appropriate option.

A.Extension Methods

B.Collection Initializers

C.Anonymous types

D.Object Initializers

Answer-Object intializers

3. Consider the below code segment:

public static void Main()

{

int[][] arr=new int[3][];

arr[0] = new int[] { 1, 2 };

arr[1] = new int[] { 3, 4, 5 };

arr[2] = new int[] { 6, 7, 8,6};

for (int i = 0; i < 2; i++)

{

for (int x = 0; x <= arr[i].Length-1; x++)

{

Console.WriteLine(arr[i][x]);

3

Console.WriteLine(" ");

}

```
Console.Read();
A.12 345 6786
B.12 345
C.12 345 678
D.12 34 67
```

Answer -12 345

4. attacks exploit vulnerabilities in Web page validation by injecting client-side script code.

Choose most appropriate option.

- A.Java Script
- B.SQL Injection
- C.C# Code
- D.Cross-site scripting (XSS)

Answer-Cross-Site scripting (XSS)

5. If str1 and str2 are references to two strings, then which of the following is the correct way to compare the two references?

Choose most appropriate option

- strcmp(str1, str2)
- A.str1 == str2
- B.str1 is str2
- C.str1 = str2
- D.str1.Equals(str2)

ANSWER- str1==str2

6.Sudhir wanted to evaluate scenarios where he might encounter the InvalidCastException. He is expecting this exception from the following code:

```
int intvar = 2;
object objvar = (object)intvar;
short shortvar = (short)objvar;
```

Do you think he will get the expected Exception type?

Choose most appropriate option

- A.Yes
- B.No

Answer-NO

7.allows you to index a class, struct or interface in the same way as array.

Fill in the blank with an appropriate option.

- A.Object Initializer
- B.Delegate
- C.Indexer
- D.Property

Answer-Object intializers

8.What is the .NET collection class that allows an element to be accessed using a unique key?

Choose most appropriate option.

- A.ArrayList
- B.String Collection
- C.X
- D.x
- E.Stack
- F.HashTable

#### Answer-Hash Table

9.Which statement finds the rows in the Employee table that do not have Manager?

Click on hyperlink to view the EMP Table.

Choose most appropriate option.

- A.SELECT EMPNO, ENAME,MGR FROM EMP WHERE MGR IS NULL;
- B.SELECT EMPNO, ENAME,MGR FROM EMP WHERE MGR = NULL;
- C.SELECT EMPNO, ENAME,MGR FROM EMP WHERE MGR CONTAINS NULL;
- D.SELECT EMPNO, ENAME,MGR FROM EMP WHERE MGR == NULL;

#### ANSWER- A

10.After understanding following code snippet, Sudhir is to determine the output of the following code:

```
int[] myarray = new int[3] {20,19,21};
int[] copyarray= new int[3];
Array.Copy(myarray, 0,copyarray, 1, 1);
Console.WriteLine("{0}-{1}-{2}", copyarray[0], copyarray[1], copyarray[2]);
```

According to you, what should be the output?

Choose most appropriate option

- A.0-20-0
- B.20-19-0
- C.20-19-21
- D.None of the above, use of unassigned array index results in error.

#### Answer- A

11. For long running tasks it is preferable to create your own threads using delegate.

Choose most appropriate option.

- A.ThreadPulse
- B.ThreadCreate
- C.ThreadPool
- D.Thread Start

#### Answer- ThreadStart

Q. Are the following statements true or false?

Statement 1 LINQ provides a unified programming model to different data domains for data

Statement 2: Language integrated query is set of framework features for structured type safe queries.

Choose most appropriate option.

Ans. Both statements are true

Q. Multiple workspaces can be maintained for a single project in the source control.  
State TRUE or FALSE.

Ans. False

Q. Sudhir wanted to evaluate scenarios where he might encounter the InvalidCastException. He is expecting this exception from the following code:

```
int intvar 21 object objvar (object)intvar
short shortvar (short) Do you think he will get the expected Exception type?
```

Choose most appropriate option

Ans. No

Q. Below is the Collection Interface list with their meaning in unorganized order.

1-Purpose of idctonary:Exposes a method that compares two objects.

2-Purpose of listDefines size, enumerators and synchronization methods for at collections.

3-Purpose of comparer Represents a collection of key-and-value pairs.

4-Purpose of Icotection Represents a collection of objects that can be individually accessed by index.

Choose the best option to organize the above collection Interface and its meaning,

Choose most appropriate option

Ans.

Q. For long running tasks it is preferable to create your own threads using

Choose most appropriate option.

Ans. Threadcreate

Q. If str1 and str2 are references to two strings, then which of the following is the correct way to the two

Choose most appropriate option

Ans. str1.equals(str2)

Q. Sudhir wanted to evaluate scenarios where he might encounter the InvalidCastException. He is expecting this exception from the following code:

```
int intvar 21 object objvar (object)intvar
short shortvar (short) Do you think he will get the expected Exception type?
Choose most appropriate option
```

Ans. No

Q. After understanding following code snippet, Such is to determine the output of the following code:

```
int myarray new int[3] (20,19,21) int[] copyarray=new int[3];
Array.Copy myarray, 0.copyaay, 1, 1); Console.WriteLine("(0)-(1)-(23", copyanay(0), copvarray(1),
copparray(2))
```

According to you, what should be the output?

Choose most appropriate option

Ans. None of the above, use of unassigned array of index results in error

1. What are the workflow authoring styles supported by WWF

Choose two most appropriate option

- a) Base class library
- b) Entity Style
- c) Random Style
- d) Data-driven style

**Answer: a,d**

2. Identify the option which follows the correct order of Action

- 1. Obtain the Data source.
- 2. Execute the query.
- 3. Create the query

Choose most appropriate option

- a) 1,2,3
- b) 3,2,1
- c) 1,3,2
- d) 3,1,2

**Answer: c**

3. \_\_\_\_ is a process in which a Web application accepts data from a user and processes it

Choose most appropriate option.

- a) Page Init
- b) Page Load
- c) ASP.NET
- d) Page Posting

**Answer: d**

4. The class that encapsulates the event information should be derived from \_\_

Fill in the blank with an appropriate option

- a) System.EventArgs
- b) System.EventHandler
- c) System.Delegate
- d) System.componentModel.EventDescriptor

**Answer: a**

5. What are the different components of LINQ?

Choose four appropriate options.

- a) LINQ to Objects
- b) LINQ to XML
- c) LINQ to SQL
- d) LINQ to DataSet
- e) LINQ to Datatable
- f) LINQ to DataRow

**Answer: a b c d**

6. The specific protocols and serialization formats that are used to support successful communication with the service

Choose most appropriate option

- a) Operation Contract
- b) Service Contract
- c) Fault Contract
- d) Data Contract
- e) All of the above
- f) None of the above

**Answer: b**

7. Consider the enumeration below enum ThreadPriority { Lowest, BelowNormal, Normal, AboveNormal, Highest }

Choose two appropriate options

- a) Threadpriority becomes important only when multiple threads are simultaneously active
- b) Lowest and Highest are not part of this enumeration
- c) A thread's Priority property determines how much execution time it gets relative to other active threads in the operating system

**Answer: a c**

8. In Memory mapping, which class signifies a randomly accessed view of a memory-mapped file

Choose most appropriate option

- a) MemoryMappedViewStream
- b) MemoryMappedViewAccesser
- c) CreateViewAccessor
- d) MemoryMappedFileView
- e) None of the above

**Answer: b**

9. In WPF, which layout control aligns the child controls to the edges of panel

Choose most appropriate option

- a) StackPanel
- b) DockPanel
- c) GridPanel
- d) CanvasPanel
- e) None of the above

**Answer: b**

10. A \_\_\_ expression is an anonymous function that can contain expressions and statements and can also be used to create delegates or expression tree types

Choose the appropriate option

- a) Join
- b) XML
- c) Data
- d) lambda
- e) SQL

**Answer: d**

11. Which of the below are invalid serialization attributes ?

Choose two most appropriate options.

- a) XmlRootElement
- b) XmlAttribute
- c) XmlElement
- d) XmlElementName

**Answer: a d**

12. \_\_\_\_\_ provides a means of reading a forward-only stream of rows from a SQL server database.

Fill in the blank with an appropriate option

- a) SqlDataReader
- b) Dataset
- c) DataTable
- d) Dataview

**Answer: a**

13. During a Jagged Array practice session, Shruthi wrote following code:

```
int[][] myarray= new int[][]{3};
myarray [0]=new int[3];
myarray [1]=new int[4];
myarray [2]=new int[5];
```

IDE continued to show an error for this Jagged Array construction According to you which line is causing this error?

Choose most appropriate option

- a) int[][]myarray new int[][3];
- b) myarray [0]=new int[3];
- c) myarray [1]=new int[4];
- d) myarray [2]=new int[5];

**Answer: a**

14. Consider the following code and identify the attribute to be added to make the Name a property of Employee type in the data contract

```
[DataContract]

Public class Employee

{

 private string m_Name;

 public string Name { get { return m_Name; } set { m_Name = value; } }

}
```

Choose most appropriate option

- a) [DataMember]
- b) [DataService]
- c) [DataAttribute]
- d) [DataProperty]

**Answer: a**

15. Please select the two correct statements for XML document:

Choose two appropriate options

- a) XSD is the XML-based alternative of DTDs having the same purpose of DTDs but more powerful and extensible

- b) DTD is the XML-based alternative of XMLs having the same purpose of XMLs but more powerful and extensible.
- c) DTD is the older standard. It is most probable that XSD will replace DTD for validating XML Documents.
- d) XSD is the older standard. It is most probable that DTD will replace XSD for validating XML Documents.

**Answer: a c**

16. Rahul is trying to use StringBuilder class in a program, but he is getting error. To use the StringBuilder class which namespace he should include in the program

Choose most appropriate option

- a) System.String
- b) System.Globalization
- c) System.io
- d) System.Builder
- e) None of the above

**Answer: e**

17. please select the correct task to prevent possible code injections

choose three appropriate options

- a) Client side validation need to be done by Java Script
- b) Don't store sensible data into cookies
- c) Don't use hidden boxes to hold data
- d) Don't depend on client side javascript validation

**Answer: b c d**

18. Which of the following statement(s) is/are true about the operator overloading?

Choose most appropriate option

- a) Binary operators can be overloaded
- b) The cast operator cannot be overloaded, but you can define new conversion operators

c) Unary operators can be overloaded.

d) All of the above

**Answer: d**

19. The goal of \_\_\_\_ is to decrease the amount of code and maintenance required for data-oriented applications

Choose the appropriate option

a) LINQ to C#

b) LINQ to Entities

c) LINQ to Database

d) LINQ to XML

**Answer: b**

20. In the .NET Framework, where is the version information of an assembly stored?

Choose most appropriate option

a) Manifest

b) Visual Source Safe

c) Common type System

d) Version Control

**Answer: a**

21. Identify drawbacks of the Design Patterns from the below mentioned options

Choose two appropriate answers

a) Patterns do not lead to direct code reuse

b) Patterns are deceptively simple

c) Teams may not suffer from pattern overload

d) Maintainability and reusability

**Answer: a b**

22. This event is raised by the page object. This event is used to complete all tasks that require initialization

Choose the appropriate option

- a) PreInit
- b) PreLoad
- c) Init
- d) InitComplete
- e) LoadComplete

**Answer: d**

23. A class source-code file that is compiled at run time. These classes can be: HTTP Module, HTTP Handler. Can also be a code-behind file for an ASP.NET page or a stand-alone class file containing application logic- find the extension of these files above

Choose most appropriate option

- a) .config
- b) .cs, .jsl, .vb
- c) .licx, .webinfo
- d) .resources, .resx

**Answer: b**

24. which of the following does an assembly contain ?

Choose most appropriate option

- a) Manifest type metadata, Resources, MSILcode
- b) Manifest, type metadata
- c) Manifest, type metadata, resources
- d) Manifest

**Answer: a**

25. Which Method is used to create a MemoryMappedViewAccessor that maps to a view of the memory-mapped file

Choose most appropriate option

- a) MemoryMappedViewAccesser()
- b) MemoryMappedViewStream()
- c) CreateViewAccessor()
- d) CreateMemoryMappedViewAccessor()

**Answer: c**

26. Which of these namespaces handle the following information Language-Country/ Region -Calendars in use Format pattern for dates -Currency

Choose most appropriate option.

- a) System.String
- b) System.Globalization
- c) System.IO
- d) System.Reflection

**Answer: b**

27. WPF Which control n the WPF application has a property GroupName ?

Choose most appropriate option

- a) CheckBox
- b) RadioButton
- c) ComboBox
- d) All of the above

**Answer: b**

28. In an interview Akshay was asked to evaluate following code and determine the Output.

```
class Program
{
 static Program()
 {
 int number= 100; int denominator= intParse("0");
 }
}
```

```
int result = number /denominator; Console writeLine(result); }

}

class MyClass { static void Main() { Program program= new Program(); } }
```

According to you, what should be the output of this code? Choose most appropriate option

- a) System.DivideByZeroException
- b) System.TypeInitializationException
- c) System.InvalidCastException
- d) There won't be any exception, result would get printed.

**Answer: b**

29. Shruthi is working as a developer. She has to write the code to Create a ConnectionString. Which of the following parameter of ConnectionString she should use to specify the name of the database ?

Choose two appropriate options.

- a) Provider
- b) Initial Catalog
- c) Database
- d) Data Source

**Answer: b c**

30. Which of the following is/are Statement(s) related to interface ?

Choose most appropriate option

- a) Interface is a type whose members are all public and abstract by default
- b) Interface itself can inherit other interfaces
- c) To implement an interface, class uses the same syntax that is used for inheritance.
- d) All the above

**Answer: d**

31. True/False: XML serializes only the public properties and private fields of an object.

Choose most appropriate option

a) TRUE

**b) FALSE**

**Answer: b**

32. Refer to the below code and Identify the missing statements.

**[ServiceContract]**

**Public interface IHello**

{

**void SayHello(string name);**

}

Choose most appropriate option.

- a) **[OperationContract] attribute needs to be included about the SayHello method.**
- b) [DataMember] attribute needs to be included about the SayHello method.
- c) [ServiceContract] attribute needs to be included about the SayHello method.
- d) None of the above.

**Answer: a**

33. To execute the below code successfully, which namespace to be included

Using System;

```
class MyClass { static void Main(String[] args) { Parallel.For{21, 31, i => {Console.WriteLine(i);}}; } }
```

choose most appropriate option

- a) System.Threading
- b) System.Threading.Tasks**
- c) System.Linq
- d) Using System.Collections.Concurrent

**Answer: b**

34. Consider the following code and identify the statements which are true?

using System;

```
using System.Linq;

class OrderDemo {Static void Main(){String[] englishletters={"d", "c", "a", "b"};

var sorted = from englishletter in englishletters orderby englishletter select englishletter;

foreach(string value in sorted) { Console.WriteLine(value);}}}
```

Choose two appropriate options.

- a) Englishletters is an unsorted array
- b) Sorted is an IEnumerable <String>
- c) The output will be in the descending order
- d) The foreach loop is responsible for sorting the englishletters

**Answer: a,b**

35. Which of the following substantiates the use of stored procedure?

Choose most appropriate option.

- a) The number of requests between the server and the client is reduced.
- b) The execution plain is stored in the cache after It is executed the first time
- c) .Stored procedures accept parameters.
- d) You can bypass permission checking on stored procedure.

**Answer: b**

36. \_\_\_\_\_ is the process of converting the state od an object into a form that can be persisted or transported.

Fill in the blank with an appropriate option.

- a) Delegate
- b) **Serialization**
- c) Events
- d) Object Initializer

**Answer: b**

37. Samriti needs to create a UML Diagram that can depict the user requirements scenarios in which your system or application interacts with people, organizations or external systems. Which diagram should she be using?

Choose most appropriate option

- a) **Use Case Diagram**
- b) Class Diagram

- c) Object Diagram
- d) Sequence Diagram

**Answer: a**

38. Rohit wanted to print the SQL server name of his system. Which code should use in SQL server name?

Choose two most appropriate options.

- a) **Select @@servername**
- b) **print@@servername**
- c) select@@server
- d) print@@server

**Answer: a,b**

39. In WWF, \_\_\_\_\_ is the interaction between the Host processes and a specific activity in an specific workflow instance.

Choose most appropriate option.

- a) Local Communication
- b) Compensation
- c) **Correlation**
- d) Serialization

**Answer: c**

40. How the rules or conditions expressed in WWF to implement business logic

Choose most appropriate option

- a) Conditions can be articulated as declarative, or defined in code
- b) Rules consist a condition statement and collections of actions that are not performed based on the result of the condition
- c) Rules are expressed as an XML file
- d) **a & c**
- e) a & b & c

**Answer: d**

41. Which of the following will legally declare a construct and initialize an array?

Choose most appropriate option.

- a) char myArray[] = {'a', 'b', 'c'};

- b) char myArray[] = {a ; b; c; };
- c) char myArray[] = {'a'; 'b'; 'c');
- d) char [ ] myArray= {'a', 'b', 'c'};**

**Answer: d**

42. Web Server provides a detailed description of the extensions, filters, and script mapping

Choose the appropriate option

- a) Internet Server Active Programming Interface (ISAPI)
- b) Internet Served Application Programming Integration (ISAPI)
- c) Internet Server Application Programming Interoperability (ISAPI)
- d) Internet Server Application Programming Interface (ISAPI)**

**Answer: d**

43. A jagged array is an array of arrays, and therefore its elements are \_\_\_\_\_.

Fill in the blank with an appropriate option.

- a) Value types
- b) Reference types**
- c) Both Value types and Reference types

**Answer: b**

44. Which of the following is true about ADO.NET?

Choose most appropriate option.

- a) ADO.NET is an object oriented set of libraries that allows you to interact with data sources.
- b) ADO.NET classes are found in System.Data.dll.
- c) ADO.NET classes are integrated with XML classes.
- d) ADO.NET contains .NET Framework data provider for connecting to a database.
- e) All of the above.**

**Answer: e**

45. Identify the statements which are in Camel Case.

Choose the two appropriate options.

- a) Public void Show(string bookName){...}**
- b) totalAmount**
- c) BlueColor
- d) Public event EventHandler ClickEvent

**Answer: a,b**

46. Which of the following are facts about Non-persistence memory mapped files?

Choose most appropriate option

- a) These files are memory-mapped files that are associated with a source file on a disk.
- b) When the last process has finished working with the file, the data is saved to the source file on the disk.
- c) These memory-mapped files are suitable for working with extremely large source files.
- d) These files are suitable for creating shared memory for inter-process communications**

**Answer: d**

47. LINQ relied on the concepts of extension of extension methods, anonymous types, anonymous methods and \_\_\_\_\_.

Fill in the blank with an appropriate option.

- a) Lambda expressions**
- b) Xml expressions
- c) Data expressions
- d) Sql expressions

**Answer: a**

48. What are the services will be provided by Windows Workflow – Foundation?

Choose two most appropriate option

- a) Transaction Services**
- b) Migration Services
- c) Scheduling Services**
- d) Security services

**Answer: a,c**

49. Are the following statements true or false?

Statement 1: A Task is a schedulable unit of work. Statement

2: Task enqueued to a TaskScheduler.

- a) Both statements are true.**
- b) Both statements are false.
- c) Statement 1 is false and statement 2 is true.
- d) Statement 2 is false and statement 1 is true.

**Answer: a**

50. Which of the following apply to constructor?

Choose three appropriate options.

- a) Constructors are methods that set the initial state of an object
- b) Constructors cannot return a value, not even void
- c) Constructors can be inherited
- d) If the class does not explicitly declare a constructor, it will default to a no parameter, do nothing constructor

**Answer: a, b, d**

51. What will be the output of the below program using System;

```
using System.IO;

class Program

{ Static void Main(string[] args)

{ StreamWriter sw = File.CreateText("C:\\accenture.txt");

try { sw.WriteLine("Welcome to Accenture");}

catch(IOException e){ Console.WriteLine(e.Message);}

finally{ if(sw != null) sw.Close();}}}
```

**Choose most appropriate option**

- a) Accenture.txt file is created in C: drive
- b) IOException will be thrown
- c) Unhandled Exception
- d) Completetime Error

**Answer: a**

52. Shruthi is working on the code below. When she executes this code she is facing this error – using directive error.

Which of the option will resolve this error?

```
Int[] numbers = new int[7] {0,1,2,3,4,5,6};

var numQuery = from num in numbers where (num % 2) == 0 select num;

foreach (int num in numQuery) {Console.Write("{0}", num);}
```

Choose most appropriate option

- a) She must use the System.Linq namespace
- b) She must use the System.Linq.Expressions namespace
- c) She must revise her Linq query
- d) None of the above

**Answer: a**

53. With respect to generic concept, developers can create which generic item?

Choose three appropriate options.

- a) Generic constant
- b) Generic class
- c) Generic event
- d) Generic delegate

**Answer: b,c,d**

54. Radha wants to sort data stored in an array. She doesn't want to work on the sorting functionality. Do we have any provision in the .NET framework FCL to help her in sorting?

Choose most appropriate option

- a) Yes, she can use System.Sory(array)
- b) Yes, she can use System.Data.Sort(array)
- c) Yes, she can use System.Array.Sort(array)
- d) No, she need to write the sort functionality

**Answer: c**

55. Error handling in WCF service is handled by \_\_\_\_\_.

Choose most appropriate option.

- a) Fault Contract
- b) ServiceContract
- c) DataContract
- d) MessageContract

**Answer: a**

56. Which of the options is valid with respect to below statements

Statement1: StringBuilder saves time and memory by not creating a new string each time an operation is performed on a string.

Statement2: System.Math class provides constants and static methods for trigonometric, logarithmic, and assertion functions.

Choose most appropriate option.

- a) Statement1 is True. Statement2 is false
- b) Statement1 is False. Statement2 is True
- c) Statement1 is False. Statement2 is False
- d) Statement1 is True. Statement2 is True

**Answer: a**

57. Identify correct syntax for declaring indexer.

Choose most appropriate option.

- a) public int this[int index] { get{} set{} }
- b) public int [int index]this { get{} set{} }
- c) public this[int index] { get{} set{} }
- d) public this[int index] int { get{} set{} }

**Answer: a**

58. A/An \_\_\_\_\_ that does not have a WHERE clause produces the Cartesian product of the tables involved in the join.

Choose the appropriate option

- a) Equi Join
- b) Inner Join
- c) Self Join
- d) Cross Join

**Answer: d**

59. Arun wants to retrieve result using a query “select count(\*) from employee”. Which is most appropriate SqlCommand method for his requirement

Choose most appropriate option

- a) Execute Reader
- b) ExecuteQuery
- c) ExecuteNonQuery
- d) ExecuteScalar

**Answer: d**

60. CREATE VIEW [dbo].[viewmyTable] AS SELECT D.DeptName, D.Location, E.Name FROM Department  
D LEFT OUTER JOIN Employee E ON D.DeptID = E.DeptID GO

Predict the output, when the above query executed?

Choose most appropriate option

- a) Commands execute successfully
- b) Incomplete query
- c) Syntax error

**Answer: a**

61. Which of the following are True for Workspace

Choose two appropriate options

- a) Workspace is a folder created within the local system which maps a project in the source control.s
- b) Files within the source control which needs changes, should be first loaded into the workspace of the local system. Any changes made to the files are stored in the local workspace.
- c) Only one workspace can be maintained for a single project in the source control.
- d) Files need to be checked-out in order to upload changes into source control.

**Answer: a,b**

62. Visibility qualifier is used for which off the following?

Choose most appropriate option.

- a) Specifying different visibility for the get and set accessors of a property or an indexer.
- b) Setting the visibility off the accessor get and set to public even though the property visibility is set to protected.
- c) Setting the visibility of the accessor and set to public even though the property visibility is set to internal.
- d) All off the above.

**Answer:a**

63. Select the two correct two statements for xml schema(XSD)

Choose most appropriate option.

- a) The <schema>elements is the root element for XSD.

- b) Has data types and namespaces, like DTDs.
- c) Elements in schemas are divided into three types: Simple Elements Mixed Elements Complex Elements.
- d) XSD is written similarly to XML as XSD makes use of XML syntax, hence most of the rules to XML apply to XSD.**

Answer: a,d

64. State true or false for the statements for design patterns.

Statement 1: Prototype-A fully initialized instance to be copied or cloned.

Statement 2: Singleton-A class of which only a multiple instances can exist.

Choose most appropriate option.

- a) All the statements are true.
- b) All the statements are false.
- c) Statement1 is true and statement2 is false.**
- d) Statement2 is true and statement1 is false.

Answer: c

65. What is the .NET Collection class that allows an element to be accessed using a unique key?

Choose most appropriate option.

- a) ArrayList
- b) StringCollection
- c) Stack
- d) Hashtable**

Answer: d

66. Rajesh needs to copy only specific range of elements from MyArray to copyMyArray. He is using following code.

```
Int[] myarray= new int[3] {20,19,21};
```

```
Int[] copyarray= new int[3];
```

```
Array.Copy(myarray,copyarray,1);
```

Would this code give him desirable Output?

Choose most appropriate option.

**a) Yes**

b) No

**Answer:a**

67. Consider the following statements and identify the WCF program 1,These are programs that consume the services 2.They are normally the ones the initiate the messaging to the service.

Choose most appropriate option.

a) Message

**b) Client**

c) Intermediates

d) None of the option

**Answer:b**

68.Which of the below syntax is correct to define operator method or to perform operator overloading?

Choose most appropriate option.

a) Public static op(arglist) {}

b) Public static returnvalue op(arglist){}

**c) Public static returnvalue operator op(arglist){}**

d) All of the above

**Answer:c**

69. Identify two conditions from the following that need to be met for multicast delegates.

Choose most appropriate option.

**a)None off the parameters of the delegate is an output parameter.**

**b)The return type of the delegate is void.**

c)The parameter o the delegate is an output parameter

**Answer:a,b**

70. What is /are the different component(s) off LINQ?

Choose most appropriate option.

- a) LINQ to Objects
- b) LINQ to XML
- c) LINQ to SQL
- d) LINQ to Entity
- e) All of the above**

**Answer: e**

71.Identify the description of @@IDENTITY.

Choose most appropriate option.

- a) Returns the error number for the last Transact-SQL statement executed.
- b) Returns the last -inserted identity value.**
- c) Returns the number of rows affected by the last Statement.

**Answer:b**

72.Identify the list off Common Exception Classes

Choose most appropriate option.

- a) System.StackException
- b) System.NullReferenceException**
- c) System.ArrayTypeMismatchException**
- d) System.TypeMisMatchException
- e) System.InvalidCastException**

**Answer:b,c,e**

73. Read the statement below and identify the workflow component This is the act of undoing any actions that were performed by a successfully completed activity because of an exception that occurred elsewhere in a workflow

Choose most appropriate option.

- a) Activity

**b) Compensation**

- c) Service
- d) Workflow persistence

**Answer:b**

74. John is developing an application for ABC company in which he wants to combine application UIs,2D graphics,3D graphics, documents and multimedia in one single framework. Which component can he use?

Choose most appropriate option.

**a)WPF**

- b)WCF
- c)Linq
- d)OOPS

**Answer: a**

75.What is/are the advantages of LINQ over stored procedures?

Choose most appropriate option.

- a)Debugging- it is really very hard to debug the stored procedure but as LINQ is part off .NET, you can use visual studio's debugger to debug the queries.
- b)Deployment- With stored procedures, we need to provide an additional script for stored procedures but with LINQ everything gets compiled into single DLL hence deployment becomes easy.
- c)Type Safety- LINQ is type safe, so queries errors are type checked at compile time.it is really good to encounter an error when compiling rather than runtime exception

**d)All off the above**

**Answer: d**

76. which of the below are valid Statements about DataReader and Data set

Choose most appropriate option.

- a) DataReader reads all the records at a time and it is used in multiple databases.
- b) DataSet always reads one record at a time and it moves into a forward direction.

**c) DataReader is a connected Architecture**

**d) Dataset is a collection of in memory tables**

**Answer:c,d**

77. Identify the functions of common type System(CTS)

Choose most appropriate option.

- a) They form the fundamental unit off deployment, version control, reuse, activation scoping, and security permissions
- b) Most off the members defined by types in the .NET framework class Library are CLS-compliant
- c) Establishes a framework that helps enable cross-Language integration, type safety, and high performance code execution**
- d) Provides an object –oriented model that supports the complete of many programming languages**

**Answer:c,d**

78. Identify the tasks a user is able to perform in Source Control Explorer

Choose most appropriate option.

- a) Create/Rename/Delete files and folders
- b) Check in/out files
- c) Get latest/Specific version
- d) All of the above**

**Answer:d**

79. \_\_\_\_\_ Represents the standard input, output, and error streams ffor console applications. This class cannot be inherited.

Fill the blank with appropriate option.

**a) Console class**

b) TextWriter class

c) Text class

**Answer:a**

80.What is the namespace for “Task” class?

Choose most appropriate option.

a) System.Tasks

**b) System.Threading.Tasks**

C) System.Diagnostics.Tasks

d) System.Dynamic.Task

**Answer:b**

81.State true or false for the below statements.

Statement1 : Multicast delegates are used extensively in event handling.

Statement2 : Delegation can be used to define callback methods

Choose most appropriate option.

**a) Statement1 and Statement2 are true**

b) Statement2 is true and Statement2 is false

c) Statement1 is true and Statement2 is false

d) Statement2 and Statement1 are False

**Answer:a**

82.\_\_\_\_\_namespace provides classes for using a memory mapped file,which maps the contents of a file to an applications logical address space.

Fill with the most appropriate option.

a)System.MemoryMappedFile

b)System.MemoryMappedFiles

**c)System.IO.MemoryMappedFiles**

d)System.IO.Memory

**Answer:c**

83.Identify the WCF contract considering the following statement

1. WCF contracts defines implicit contracts for built in data types like string and int.

2. This contract defines which data types are passed to and from the service

Choose most appropriate option.

a) Service Contract

b) Fault contact

**C) Data Contract**

d) Message contact

**Answer:c**

84. Which of the below statements are correct about Indexers

Choose most appropriate option.

a) Indexers are location indicators

b) Indexers are used to access class objects

c) Indexer is a form of property and works in same way as a property

d) a&b

e) b&c

**f) a,b&c**

**Answer:f**

85. \_\_\_\_\_ and \_\_\_\_\_ methods of a delegate helps to process delegate asynchronously

Fill the blank with appropriate option.

**a) BeginInvoke(),EndInvoke()**

b) InvokeBegin(),InvokeEnd()

c) Begin(),End9)

d) BeginInvokeDelegate(),EndInvokeDelegate()

**Answer:a**

86.Which option gets the version of the selected file/folder specific to date, changeset, label,or workspace version?

Choose most appropriate option.

a)GetSpecificFile

b)GetLatestVersion

c)GetSelectVersion

**d)GetSpecificVersion**

**Answer:d**

87.All query operations of LINQ consist of three district actions

Choose most appropriate option.

- a) 1. Obtain the data source 2. Declare the Data source 3.Excute the data source
- b) 1. Declare the data source 2.Initialize the query 3. Execute the query
- c) 1. Declare the Data source 2. Create the data source 3 .Execute the Data source
- d) 1. Obtain the data source 2.Create the query 3. Execute the query**

**Answer:d**

88.Rajesh is implementing an ASP.NET page. The page include a method named GetProjectAllocation that returns dataset. The Dataset includes a datatable named ProjectAllocation. Rajesh need to show the data in GridView control named GridView1

Choose most appropriate option.

- a)Gridview1.DataTable=GetProjectAllocation();
- b)GridView1.DataTable=GetProjectAllocation();GridView1.DataBind();
- c) GridView1.DataSource=GetProjectAllocation();GridView1.DataBind();**
- d) GridView1.DataSourceld=GetProjectAllocation();GridView1.DataBind();

**Answer:c**

89. \_\_\_\_\_ is a pre defined, reusable routine that is stored in a database

Fill the blank with most appropriate option.

- a) Function
- b) Stored Procedure**
- c) View
- d) Joins

**Answer:b**

90.Which of the following are True for Workspace

Choose two appropriate options

- a) Workspace is a folder created within the local system which maps a project in the source controls.
- b) Files within the source control which needs changes, should be first loaded into the workspace of the local system. Any changes made to the files are stored in the local workspace.
- c) Only one workspace can be maintained for a single project in the source control.
- d) Files need to be checked-out in order to upload changes into source control.

**Answer: a,b**

91. In LINQ , all the core types are defined in \_\_\_\_\_

Choose most appropriate option.

- a) System.Linq.XML and System.Linq.Expressions
- b) System.Linq and System.Linq.XML
- c) **System.Linq and System.Linq.Expressions**
- d) System.XML.Linq and System.Linq.Expressions

**Answer : C**

92. The \_\_\_\_\_ hosting option is integrated with ASP.NET and uses the features these technologies offer, such as process recycling , idle shutdown ,process health monitoring , and message based activation.

Choose most appropriate option

- a) **IIS**
- b) Windows Services
- c) WAS
- d) Self Hosting
- e) All of the above
- f) None of the above

**Answer : A**

93. What are true about Static Constructors

Choose two appropriate options

- a) Static variable get instantiated after the static constructor
- b) Static constructors provide the flexibility of statically initializing static variables
- c) Static constructors have access to static members of theirs class only
- d) A static constructors does not have parameters and access modifiers cannot be applied to it

**Answer : C, D**

94. Which of the below statement(s) are valid in Operator Overloading?

Choose most appropriate option

- a) The conditional logical operators cannot be overloaded
- b) The array indexing operator can be overloaded

- c) The comparison operators cannot be overloaded
- d) All of the above
- e) None of the above

Answer : A

95. You want to make a configuration setting change that will affect only the current web application. Which file will you change?

Choose most appropriate option

- a) Web.config
- b) Machine.config
- c) Global.asax

Answer : A

96. Testing which attribute should be used to run code before the first test is run in the class?

Choose most appropriate option

- a) TestInitialize()
- b) TestClass()
- c) ClassInitialize()
- d) TestStart()

Answer : C

97. VSTS is also used for automated unit testing of components and regression testing.

State TRUE or FALSE

- a) FALSE
- b) TRUE

Answer : TRUE

98. Which access modifier cannot be used with data members of a structure?

Choose most appropriate option

- a) Public
- b) Protected
- c) Internal
- d) Private

Answer : B

99. Anand has created a master page named Plant.master. the master page uses the following page directives.

```
<%@ Master Language="c#" Src("~/Plant.master.cs" inherits="Plant" %>
```

He needs to create a content page that uses the master page as a template. In addition , he needs to use a single master page for all devices that access the web site. Which code segment should be use ?

Choose most appropriate option

- a) <%@ Page Language="c#" Theme="Plant" Skin="Plant.cs"%>
- b) <%@ Page Language="c#" MasterPageFile="~/Plant.master" %>
- c) <%@ Page Language="c#" device:MasterPageFile="~/Plant.master" %>
- d) <%@ Page Language="c#" de:MasterPageFile="~/Plant.master" %>

Answer : B

100. CREATE VIEW [dbo].[viewmyTable] AS SELECT D.DeptName , D.Location , E.Name FROM Department D JOIN Employee E ON D.DeptID = E.DeptID GO Predict the output , when the above view is executed ?

Choose most appropriate option

- a) A view will be created by selecting deptname , location from the department table and employees name from the employee table .
- b) Syntax error
- c) Incomplete query
- d) A view will be created by selecting deptname , location and name from the department table.

Answer : A

101. Are the methods below a valid overload

```
Public int Sum(ref int a , ref int b)
Public int Sum(out int a , out int b)
```

Choose most appropriate option

- a) Yes
- b) No

Answer : No

102. State true or false for the below statements.

Statements1. Extension Methods: Which gives us the capabilities to asses our own custom methods to data types without deriving from the base class.

Statement2. Object Initializer: allows you to pass in named values for each of the public properties that will be used to initialize the object.

Choose most appropriate option

- a) Statement 1 and statement 2 are true.
- b) Statement 1 and statement 2 are false.
- c) Statement 1 is false and statement 2 is true.
- d) Statement 2 is false and statement 1 is true.

Answer : A

103. True/False : Fault Handling is a method of the workflow runtime engine that synchronously handles the exceptions that occur in the activities

Choose most appropriate option

- a) TRUE
- b) FALSE

Answer : FALSE

104. Which of the following are true about Delegates?

Choose three appropriate options

- a) A delegate can reference a method only if the signature of the method exactly matches the signature specified by the delegate type
- b) A delegate allows the programmer to encapsulate a reference to a method inside a delegate object
- c) Delegates are similar to function pointers
- d) Generally useful way for objects to signal state changes that may be useful to clients of that object.

Answer : A ,B ,C

105. Amulya has created following class:

```
Public class Employee { public int EmployeeCode{ get; set;} public string EmployeeName{get; set;} public int EmployeeAge{get; set;}}
```

Please select correct code for initializing an object by using Object initializers.

Choose most appropriate option

- a) Employee emp = new Employee(EmployeeCode=111;  
EmployeeName="Raghav" ;EmployeeAge=26;);
- b) Employee emp = new Employee{EmployeeCode=111,  
EmployeeName="Raghav",EmployeeAge=26};
- c) Employee emp = new Employee(){EmployeeCode=111;  
EmployeeName="Raghav";EmployeeAge=26;};
- d) Employee emp = new Employee(){EmployeeCode=111,  
EmployeeName="Raghav",EmployeeAge=26};

Answers : B

106. Identify which statements are false about windows Presentation foundation(WPF)

Choose two appropriate options

- a) Used for standalone and browser hosted applications
- b) Uses XAML markup to implement the appearance of an application
- c) The service-oriented design results in distributed systems that runs between services and clients
- d) Provides a programming model for building workflow-based applications in windows

Answer: C , D

107. How do you specify a constraints for the type to be used in a generic class

Choose most appropriate option

- a) Class Program where T: MyInterface
- b) Class Program : MyInterface
- c) Class Program constraint T : MyInterface
- d) Class Program where T : MyInterface

Answer: A

108.       VIEW [dbo].[viewmyTable] AS SELECT D.Deptname,D.location ,E.Name FROM Department D FULL OUTER JOIN Employee E ON D.DeptID = E.DeptID

Whats the output , when the above query is executed?

Choose most appropriate option

- a) Display all the employees with their Departments .Output contains
- b) The employee names and all the department names present in the database
- c) Syntax error
- d) Incomplete Query

Answer : A

109.       Which is the top .NET class from which everything is derived?

Choose most appropriate option

- a) System.Collections
- b) System.Globalization
- c) System.Object
- d) System.IO

Answer : C

110.       From the following option choose the features of WPF

Choose three appropriate options

- a) Rich Composition
- b) Separation of appearance and behavior
- c) Resolution dependence
- d) Highly customizable

Answer : A , B ,D

111.       WCF host can be IIS or WebService or Console Application

Choose most appropriate option

- a) TRUE
- b) FALSE

Answer : TRUE

112.       Sam is developing an application in which he wants to use child controls are positioned by rows and columns . which layout he can use ?

Choose most appropriate option

- a) Grid
- b) Canvas
- c) Dock panel
- d) Stack panel

Answer : A

113. Identify the code snippet for creating custom exception class

Choose most appropriate option

- a) Class CustomException:ApplicationException{}
- b) Class CustomException : AppException{}
- c) Class ApplicationException : CustomException{}
- d) None of the above

Answer : A

114. Which of the following is true about overloading?

Choose most appropriate option

- a) Overloaded methods must change the argument list.
- b) Overloaded methods can change the return type.
- c) Overloaded methods can change the access modifier.
- d) All of the above.

Answer : D

1) Identify the Reference types ?

(Choose two correct options)

a) string

b) delegate

c) enum

d) int

**Ans: string, delegate**

2) What will the output for the following code ?

```
class SampleClass

{
 public static int GetAdd(int num1,int num2)
 {
 Console.WriteLine("Addition is {0}",(num1+num2));
 return (num1 + num2) / 2;
 }

 public static int GetMul(int Val1,int Val2)
 {
 Console.WriteLine("Multiplication is {0}",(Val1*Val2));
 return (Val1 * Val2) / 2;
 }
}

class Program

{
 delegate int TestDelegate(int n1, int n2);

 static void Main(string[] args)
```

```

{
 TestDelegate testDelegate = null;

 testDelegate += SampleClass.GetAdd;
 testDelegate += SampleClass.GetMul;

 Console.WriteLine("Final Result {0}",testDelegate(4,4));

 Console.ReadLine();
}

}

```

**Ans: Addition is 8**

**Multiplication is 16**

**Final Result 8**

3) What will be the output for the following program?

```

using System;

class Program

{
 static void Main(string[] args)
 {
 string fruit1 = "Banana";
 string fruit2 = fruit1.Replace('a', 'e');
 Console.WriteLine(fruit2);
 Console.ReadLine();
 }
}

```

**Ans : Benene**

4) What will be the output for the following program?

```
using System;

class DynamicDemo

{
 static void Main(string[] args)
 {
 dynamic val1 = 500;
 dynamic val2 = "jyothi";
 val2 = val1;
 Console.WriteLine("val1={0},val2={1}",val1.GetType(),val2.GetType());
 Console.ReadLine();
 }
}
```

**Ans : val1=System.Int32,val2=System.Int32**

5 ) The class which doesn't allow objects creation, but represents as parent class of child classes, is known as \_\_\_\_\_

- a) Static
- b) Sealed
- c) Abstract
- d) Partial

**Ans:**

6) Which of the following statements are TRUE about private Assembly?

- a. Application which refers private assembly will have its own copy of the assembly
  - b. There will be only one copy of the assembly and it will be stored in Global assembly cache
- options:

- a) only a
- b) only b
- c) Both a and b
- d) Neither a nor b

**Ans :**

7) What will be the output for the following program?

NOTE : Line numbers are only for reference

```
class Program {

 static void Method(int[] num)//line1

 {
 num[0] = 11;
 }

 static void Main()

 {
 int[] numbers = { 1, 2, 3 };

 Method(numbers);//line2

 Console.WriteLine(numbers[0]);
 }
}
```

**Ans : 11**

8) What will be the output for the following program?

```
using System;

class A

{

 public A()
```

```
{
 Console.WriteLine("Class A" + " ");
}
}

class B : A

{
 public B()
 {
 Console.WriteLine("Class B" + " ");
 }
}

class ConstructorChainDemo

{
 public static void Main(string[] args)
 {
 A bobj = new A();
 }
}
```

options:

- a) class A class B
- b) class B class A
- c) class B
- d) class A

**Ans: class A**

9) Consider the following languages specifications which must be met by a programming component to be re-used across multiple languages:

Instance members must be accessed only with the help of objects

The above specifications is provided by ?

- a) Common Language Specifications(CLS)
- b) Common Type System(CTS)
- c) Attributes
- d) JIT Compiler

**Ans:**

10) Method overloading is a concept related to?

[Choose the most appropriate option]

- a) dynamic polymorphism
- b) static polymorphism
- c) abstract class
- d) encapsulation

**Ans: static polymorphism**

11) What will be the output for the following program?

```
using System;

class StaticDemo
{
 private static int number = 100;

 static StaticDemo()
 {
 number = number + 1;
 }

 public StaticDemo()
```

```
{
 number = number + 1;
 Console.WriteLine(number + " ");
}
}

class NormalConstructionProgram
{
 static void Main(string[] args)
 {
 StaticDemo obj= new StaticDemo();
 }
}
```

options:

- a) 100
- b) 101
- c) 102
- d) 103

**Ans: 102**

12) Which of the following statements are TRUE about generics?

[Choose two correct options]

- a) Generics does not need to perform boxing
- b) Generics does not need to perform unboxing
- c) Explicit typecasting is required in generics
- d) a generic declared to hold integer values can hold both integer and string values

**Ans:**

13) \_\_\_\_\_ class is used to find out object's metadata i.e, methods, fields, properties at

- a) System.Type
- b) System.Reflection
- c) System.Assembly
- d) System.String

**Ans: System.Type**

14) What will be the output for the following program?

```
class Test
{
 int num1 = 10;
 public Test()
 {
 Console.WriteLine(num1 + " ");
 }
 public Test(int num2)
 {
 Console.WriteLine(num2);
 }
}

class program
{
 public static void Main()
 {
 Test obj = new Test();
 Test obj1 = new Test(10);
```

}

}

**Ans : 10 10**

15) Which of the below option is FALSE related to abstract class?

[Choose most appropriate option]

- a) Abstract class can contain constructors
- b) Abstract class can be instantiated
- c) Abstract class can have abstract and non-abstract methods

**Ans: b) Abstract class can be instantiated**

16) What will be the output for the following program?

```
using System.Collections;
```

```
using System;
```

```
public class program
```

```
{
```

```
 public static void Main(string[] args)
```

```
{
```

```
 ArrayList fruits = new ArrayList(){ "Apple", "Banana", "Orange" };
```

```
 fruits.Insert(2, "Grapes");
```

```
 fruits.Add("Bilberry");
```

```
 foreach(var item in fruits)
```

```
{
```

```
 Console.WriteLine(item);
```

```
}
```

```
}
```

**Ans : Apple Banana Grapes Orange Bilberry**

17) using System;  
class Program  
{  
 static void Method(int[] num)  
 {  
 num[0]=11;  
 }  
 static void Main()  
 {  
 int[] numbers={1, 2, 3};  
 Method(numbers);  
 Console.WriteLine(numbers[0]);  
 }  
}

Options:

- a) 11
- b) 1
- c) compilation error at line 2
- d) 11 2 3

**Answer: 11**

18) Identify the keyword used to specify that the class cannot participate in inheritance?

- a) abstract
- b) sealed
- c) virtual
- d) override

**Answer: b) Sealed**

19) using System;

```
public class StaticTest
{
 static int num1=55;

 public void Display(int num)
 {
 num1 += num;
 Console.WriteLine("Value of num1 is "+ num1);
 }
}

public class Program
{
 static void Main()
 {
 StaticTest obj1= new StaticTest();
 obj1.Display(18);

 StaticTest obj2= new StaticTest();
 obj2.Display(20);
 }
}
```

**Answer: Value of num1 is 73 Value of num1 is 93**

20) using System;

```
class Program
{
 static void Main()
```

```
{
 int[] first = {6, 7};

 int[] second = {1, 2, 3, 4, 5};

 second = first;

 foreach(int j in second)
 {
 Console.WriteLine(j);
 }
}
}
```

**Answer: Prints 6 7**

21) Which access specifier can be accessed anywhere in the Assembly but not outside the Assembly?

- a) internal
- b) public
- c) private
- d) protected

**Answer: a) internal**

22) Which Feature of C# is Demonstrated by the following code ?

```
using System;

class Employee
{
 int id;

 public int Id
 {
 get { return id; }
 }
}
```

```
internal set { id = value; }

}

}
```

Options:

- a) Automatic properties
- b) Read only property
- c) Abstraction
- d) Asymmetric property

**Answer: Asymmetric property**

23) Predict the output of the following code:

```
enum Numbers
```

```
One=100,
```

```
Two, Three
```

```
}
```

```
class Program
```

```
static void Main()
```

```
Console.WriteLine((int)Numbers.Three);
```

**Answer : 102**

24) What will be the output of following code

```
int? num= 100; num= null
```

```
Console.WriteLine(num.GetValueOrDefault())
```

**Answer: 0(zero)**

25) class Program

```
{
```

```
static void Method(int[] num) {
```

```
num[0] = 11
}

static void Main()
{
 Int[] numbers = {1,2,3}
 Method(numbers)
 Console.WriteLine(number[0]);
}
```

**Answer – 1 1**

26) using System;

```
class Demo {
 static int x;
 int y
 Demo(){
 X++;
 Y++;
 Console.Write(x + " " + y + " ");
 }
 static void Main(string[] args){
 Demo d1 = new Demo();
 Demo d2 = new Demo();
 }
}
```

**Answer – 1 1 21**

27) class Program

```
{
 static void Main()
 {
 int first = (6, 7);
 int[] second = {1, 2, 3, 4, 5};
 second = first;
 foreach(int j in second)
 {
 Console.WriteLine(j);
 } } }
```

**Answer – 6,7**

28) using System:

```
class Program{

 void Method(int a, int b, out int c, ref int d)
 {
 a = a +1;
 b= b+ 2;
 c = a + b;
 d = c -1;
 }

 static void Main()
 {
 int first = 10, second =20, third, fourth = 30 ;
 Program p = new Program()
```

```
p. Method(first, second, out third, ref fourth);

Console.WriteLine("{0} {1} {2} {3}, first, second,third, fourth);

}}
```

**Answer – 10 20 33 32**

29) class Test

```
{

int num1 = 10;

public Test()

{

Console.Write(num1+" ");

}

public Test(int num2)

{

Console.Write(num2);

}

}

class Program

{

public static void Main()

{

Test obj = new Test();

Test obj1 = new Test(10);

}}
```

**Answer – 10 10**

```
30)using System;

Public class StaticTest

{

Static int num1=55;

Public void Display(int num)

{

num1 += num;

Console.WriteLine("Value of num1 is " + num1);

}

Public class Program

{

Static void Main()

{

Static void main()

{

StaticTest obj1 = new StaticTest();

Obj1.Display(10);

StaticTest obj2 = new StaticTest();

Obj2.Display(20);

}

}
```

**Answer – value of num1 is 65 value of num1 is 85**

31) using system:

```
class NamedParameterExample

{
```

```
static void Method(int num1, int num2, int num3=30)
{
 Console.WriteLine("num1={0}, num2={1}, num3={2}", num1, num2, num3);
}

public static void Main()
{
 Method(num2: 20, num1: 10, num3:100);
}
```

**Answer – num1= 10, num2=20,num3=100**

32)using System;

Class DynamicDemo

```
{
 Public static void main(string[] args)
 {
 Dynamic val1 =500;
 Dynamic val2="jyothi";
 Val2=val1;
 Console.WriteLine("val1={0},val2={1}",val1.GetType(),val2.GetType());
 }
}
```

**Answer- val1=System.Int32,val2=System.Int32**