

C# Assessment

Iteration #: _____ Date: _____

Duration: 60 mins

Name: _____

EMP ID: _____

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1. Where can you add elements to a linked list (choose all that apply)
 - a) At the beginning of the list
 - b) Before any specific node
 - c) After any specific node
 - d) At the end of the list
 2. Which of the following statements are true?
 - a) Inheritance defines contract between types
 - b) Interfaces defines contract between types
 - c) Inheritance derives a type from the base type
 - d) Interface derives a type from base type
 - e) None of the above.
 3. What is the correct order for the catch clause when handling different exception types (Choose the best answer.)
 - a) Order from most generic to most specific
 - b) Order from most likely to least likely to occur
 - c) Order from most specific to most generic
 - d) Order from least likely to most likely to occur
 4. You need to create a structure or a class that contains only value types. You must create the class or structure so that it runs as efficiently as possible. You must be able to pass the class or structure to procedures without concern that the procedure will modify it. Which of the following would you create? (Choose the best answer.)
 - a) A reference class
 - b) A value class
 - c) A reference structure
 - d) A value structure
 5. Which of the following code samples is a valid interface declaration
 - a)

```
interface ISampleInterface
{
    int SampleMethod()
{
    int i = 5;
```

```
    return i;  
    }  
}
```

b) interface ISampleInterface

```
{  
    int SampleMethod();  
}
```

c) interface ISampleInterface

```
{  
    private int j = 5;  
    int SampleMethod();  
}
```

d) interface ISampleInterface(int j)

```
{  
    int SampleMethod();  
}
```

6. What is the purpose of a delegate?

- a) To spawn an additional thread to provide parallel processing
- b) To copy member methods and properties from an existing class
- c) To enable an assembly to respond to an event that occurs within a class
- d) To provide identical member methods and properties from multiple related classes

7. Delegates allow the following

- a) Pass numeric data as parameters to functions
- b) Pass methods as parameters to other methods
- c) Pass pointers as parameters to other methods
- d) None of the above

8. In C#, all the exception classes should inherit from System.Exception

- a) True
- b) False
- c) Can't Say

9. What is the example of compile time polymorphism

- a) Method overriding
- b) Method overloading
- c) Method inheritance
- d) Method implantation

10. What statement is true about an abstract class

- a) A class that cannot be instantiated
- b) Is a class for which entities(instances) may be created

11. Is private virtual class overridable?

- a) Yes
- b) No

12. Inheritance expresses what relationship between the derived and base class?

- a) "has-a"
- b) "uses"
- c) "can do"
- d) "is a"

13. Explain thread life cycle?

(2 marks)

14. In which of the following areas are delegates commonly used?

- i. Remoting
 - ii. Serialization
 - iii. File Input/Output
 - iv. Multithreading
 - v. Event handling
- a) 1 and 2 only
 - b) 1 and 5 only
 - c) 1, 2 and 3 only
 - d) 4 and 5 only
 - e) All of the above

15. Which of the following is the correct way to call the function MyFun() of the Sample class given below?

```
class Sample
{
    public int MyFun(int i)
    {
        Console.WriteLine("End of Party !" );
    }
}
```

```
        return 0;  
    }  
}
```

A.

```
delegate void del(int i);  
Sample s = new Sample();  
deld = new del(ref s.MyFun);  
d(10);
```

B.

```
delegate int del(int i);  
Sample s = new Sample(.);  
del = new delegate(ref MyFun);  
del(10);
```

C.

```
Sample s = new Sample();  
delegate void del = new delegate(ref MyFun);  
del(10);
```

D.

```
delegate int del(int i);  
del d;  
Sample s = new Sample();  
d = new del(ref s.MyFun);  
d(10);
```

16. What are the different implementations of LINQ?

- A. LINQ to SQL
- B. LINQ to DataSet
- C. LINQ to XML
- D. LINQ to Objects
- E. All of the above

17. How LINQ is benefical than stored Procedure

- A. Debugging
- B. Deployment
- C. Type Safety
- D. All the above

18. Explain the Diffrence between XElement and XDocument.

- A. XElement and XDocument represents an XML Fragment
- B. XDocument represents an XML Document
- C. XElement and XDocument represents an XML Document
- D. XElement represents an XML Fragmaent