Exam:

1. What is AAA in Unit Testing?

- **Arrange, Act, Assert**

2. What modifiers are allowed for methods in an interface?

- **Public**

3. Can we override private virtual method in C#?

- **No**

4. In OOP, which answer best describes encapsulation?

- **Prevent exposition of data.**

5. If a method is marked as protected internal, who can access it?

- **Classes within the same assembly and classes derived from the declaring class.**

6. Two or more methods with the same name in the same class with different arguments are called?

- **Method overloading**

7. Can you change the value of a variable while debugging a C# application?

- **Yes**

8. Does C# support multiple inheritances?

- **Yes**

9. Constructors are used to?

- **Initialize a newly created object**

10. You can prevent a class from being inherited by another class by using which keyword?

- **Sealed**

11. What is the top .NET class that everything is derived from?

- **System.Object**

12. Which of the following is the default access specifier of class member method?

- **Private**

13. Is it possible to call a sub class constructor from base class constructor?

- **No**

14. What is a sealed class?

- It's used to prevent the class from being inherited from other classes.

15. Which of the following statements are true for Interfaces in C#(7.0)?

- Multiple inheritance.
- Cannot have access modifiers. Everything is assumed as public.

16. What is polymorphism?

- Provides the ability to a class to have multiple implementations with the same name.

17. Which of the following access specifiers in C# allows a child class to access the member variables and member functions of its base class?

- Public
- Internal
- Protected

20. Which of the following statements are true for Abstract classes in C#?

- Can inherit only one abstract class.
- Can provide complete, default code and/or just the details that have to be overridden.

Retake:

1. **Which of the following statements about testing principles is not true?**
- **Late testing is preferred.**
2. **Which of the following statements about SOLID principles is not true?**
- **Classes should depend directly on other modules.**
3. **Which of the following statements about this keyword in C# is not true?**
- **It can't be returned from a method.**
4. **What is the best place to do validation?**
- **Setter**
5. **Which of the following is not a valid type of dependency inversion?**
- **Field injection**
6. **Which of the following statements is not true?**
- **We should aim for loose cohesion.**
7. **What is the default class modifier in C#?**
- **Internal**
8. **Which of the following statements about interfaces in C# is not true?**
- **Interfaces cannot inherit other base interfaces**
9. **What is the default field modifier in C#?**
- **Private**
10. **Which of the following statements about exceptions is not true?**
- **Exceptions must be processed using try-catch-finally constructions**
11. **Which modifier can prevent inheriting a class in C#?**
- **Sealed**
12. **Which of the statements is not true?**
- **Reflections can be used to reduce code complexity and to increase code performance**
13. **Which of the following statements about TDD is not true?**
- **TDD is the process of writing tests to cover already written code.**
14. **Which interface can be used to encapsulate collection in C#?**
- **IReadOnlyCollection**
15. **Which operator defines inheritance in C#?**
- **:**
16. **Which statement about inheritance in C# is not true?**
- **Constructors are also inherited**
17. **Which of the following statements about abstract classes in C# is true?**
- **Abstract classes may contain abstract methods and accessors**
18. **Which of the following statements about encapsulation is not true?**
- **Encapsulation increases the code complexity**
19. **Which of the following statements about access modifiers is not true?**
- **Derived classes can access only the public members of its base class**
20. **Which of the following statements about attributes is not true?**
- **Attributes can be applied only to classes**