**C# Programming - Objective Type Question Paper**

**Total Questions:** 20  
**Time:** 30 Minutes

**Multiple Choice Questions (MCQs)**

1. Which of the following is the correct extension of a C# source code file?  
   a) .cs  
   b) .c#  
   c) .cpp  
   d) .c
2. C# is primarily used to develop applications for which platform?  
   a) Windows  
   b) Linux  
   c) macOS  
   d) All of the above
3. Which of the following is the default access modifier for a class in C#?  
   a) public  
   b) private  
   c) internal  
   d) protected
4. What is the base class of all classes in C#?  
   a) System.Object  
   b) System.Base  
   c) System.Parent  
   d) System.Class
5. What keyword is used to define a method that belongs to a class rather than an instance of a class?  
   a) instance  
   b) static  
   c) private  
   d) public
6. Which of the following statements is true about C#?  
   a) C# is case-sensitive  
   b) C# is an interpreted language  
   c) C# does not support object-oriented programming  
   d) C# does not support exception handling
7. How do you explicitly define a nullable type in C#?  
   a) int\* i;  
   b) int? i;  
   c) nullable int i;  
   d) #nullable i;
8. What is the purpose of the “using” statement in C#?  
   a) To import namespaces  
   b) To create objects  
   c) To handle exceptions  
   d) To write console output
9. Which operator is used for null-coalescing in C#?  
   a) ??  
   b) ||  
   c) &&  
   d) ==
10. Which of the following is NOT a valid C# data type?  
    a) int  
    b) string  
    c) char  
    d) real
11. Which keyword is used to prevent a class from being inherited in C#?  
    a) static  
    b) sealed  
    c) private  
    d) protected
12. What is the correct way to declare an array in C#?  
    a) int[] arr = new int[5];  
    b) int arr = new int(5);  
    c) int arr[5];  
    d) array arr = new array(5);
13. What does the “finally” block do in exception handling?  
    a) Executes when an exception occurs  
    b) Executes only when an exception does not occur  
    c) Always executes, whether an exception occurs or not  
    d) Catches exceptions
14. Which of the following is used to read input from the console in C#?  
    a) Console.Write()  
    b) Console.ReadLine()  
    c) Read.Console()  
    d) Console.Input()
15. Which of the following statements is true about interfaces in C#?  
    a) Interfaces can have method implementations  
    b) Interfaces can contain constructors  
    c) Interfaces cannot have fields  
    d) Interfaces support multiple inheritance
16. What is the purpose of the "ref" keyword in C#?  
    a) To pass arguments by reference  
    b) To reference an external library  
    c) To refer to a global variable  
    d) To create a reference type
17. What is the correct syntax for defining a generic class in C#?  
    a) class MyClass { }  
    b) class MyClass { }  
    c) generic class MyClass { }  
    d) class MyClass { T }
18. Which feature of C# allows a class to have multiple methods with the same name but different parameters?  
    a) Method Overriding  
    b) Method Overloading  
    c) Polymorphism  
    d) Encapsulation
19. What is the default value of a boolean variable in C#?  
    a) true  
    b) false  
    c) null  
    d) 1
20. How do you define a constant variable in C#?  
    a) const int x = 10;  
    b) constant int x = 10;  
    c) int constant x = 10;  
    d) var x = 10;