**MCQs on Chapter 23: Interfaces in C#**

1. **Which keyword is used to declare an interface in C#?**  
   a) class  
   b) interface  
   c) struct  
   d) implements  
   **Answer:** b) interface
2. **What do interfaces in C# primarily define?**  
   a) Method implementations  
   b) Abstract classes  
   c) Method declarations without implementations  
   d) Private class members  
   **Answer:** c) Method declarations without implementations
3. **How are interface members implemented in a class?**  
   a) Using the override keyword  
   b) Using the implements keyword  
   c) By explicitly defining the methods in the class  
   d) By declaring them as public in the interface itself  
   **Answer:** c) By explicitly defining the methods in the class
4. **Which of the following statements about interfaces in C# is true?**  
   a) An interface can have private methods  
   b) A class can inherit only one interface  
   c) An interface can contain method signatures but no implementations  
   d) Interfaces can be instantiated directly  
   **Answer:** c) An interface can contain method signatures but no implementations
5. **What happens if a class does not fully implement an interface in C#?**  
   a) It results in a compile-time error  
   b) The interface automatically provides default implementations  
   c) The class is treated as an abstract class  
   d) The compiler ignores the missing implementations  
   **Answer:** a) It results in a compile-time error
6. **Which of the following correctly implements the ITransactions interface in C#?**  
   a) public class Transaction : ITransactions { }  
   b) public interface Transaction : ITransactions { }  
   c) public struct Transaction : ITransactions { }  
   d) public Transaction : class ITransactions { }  
   **Answer:** a) public class Transaction : ITransactions { }
7. **Can an interface contain fields in C#?**  
   a) Yes, but they must be initialized  
   b) No, interfaces cannot have fields  
   c) Yes, but only const fields  
   d) Yes, but only static fields  
   **Answer:** b) No, interfaces cannot have fields
8. **What is the default access modifier of members in an interface?**  
   a) private  
   b) protected  
   c) internal  
   d) public  
   **Answer:** d) public
9. **What happens if a class implements multiple interfaces with methods having the same signature?**  
   a) The compiler generates an error  
   b) The class must implement both interfaces explicitly  
   c) The class must use base keyword to differentiate them  
   d) The method is inherited from the first implemented interface  
   **Answer:** b) The class must implement both interfaces explicitly
10. **Which of the following is an advantage of using interfaces in C#?**  
    a) Supports multiple inheritance  
    b) Allows defining private methods in classes  
    c) Eliminates the need for method overriding  
    d) Improves runtime efficiency  
    **Answer:** a) Supports multiple inheritance