# Multiple-Choice Questions on Chapter 19 (Classes) - C#

1. 1. What is a class in C#?

* A) A function that performs a specific task
* B) A blueprint for creating objects
* C) A structure that holds only integer values
* D) A method that manipulates data

\*\*Answer:\*\* B

1. 2. What is the default access specifier for a class in C# if not explicitly mentioned?

* A) public
* B) private
* C) internal
* D) protected

\*\*Answer:\*\* C

1. 3. How do you access a class member from an object in C#?

* A) Using the `:` operator
* B) Using the `->` operator
* C) Using the `.` (dot) operator
* D) Using the `\*` operator

\*\*Answer:\*\* C

1. 4. Which of the following statements about member functions in a class is correct?

* A) Member functions can only be private
* B) Member functions cannot modify member variables
* C) Member functions define the behavior of a class
* D) Member functions are optional in a class

\*\*Answer:\*\* C

1. 5. What is encapsulation in C#?

* A) Storing multiple classes in a single file
* B) Keeping member variables private and using methods to access them
* C) Using only public variables in a class
* D) Allowing all classes to share the same variables

\*\*Answer:\*\* B

1. 6. What is the purpose of a constructor in a C# class?

* A) To initialize an object when it is created
* B) To destroy an object
* C) To define new variables in a class
* D) To execute a method automatically

\*\*Answer:\*\* A

1. 7. What is the keyword used to define a constructor in C#?

* A) function
* B) constructor
* C) class
* D) It has the same name as the class

\*\*Answer:\*\* D

1. 8. What is a destructor in C#?

* A) A method used to delete files
* B) A special method that is called when an object is destroyed
* C) A function that modifies object properties
* D) A constructor with a different name

\*\*Answer:\*\* B

1. 9. How can you define a static member in a class?

* A) By using the `static` keyword
* B) By using the `final` keyword
* C) By using the `override` keyword
* D) By using the `const` keyword

\*\*Answer:\*\* A

1. 10. Which of the following is true about static members of a class?

* A) They can only be accessed using an instance of the class
* B) They are shared among all instances of the class
* C) They must be declared as private
* D) They can only be used inside the class

\*\*Answer:\*\* B