**1. What is an attribute in C#?**

a) A method that performs a specific task  
b) A declarative tag used to add metadata to program elements  
c) A data type in C#  
d) A keyword that defines a class  
**Answer:** b) A declarative tag used to add metadata to program elements

**2. Which of the following is a predefined attribute in C#?**

a) Serializable  
b) AttributeUsage  
c) Obsolete  
d) All of the above  
**Answer:** d) All of the above

**3. What does the [Obsolete] attribute do in C#?**

a) Marks a program entity as outdated and generates a warning or error  
b) Deletes a deprecated method from memory  
c) Prevents a class from being inherited  
d) Hides a method from the compiler  
**Answer:** a) Marks a program entity as outdated and generates a warning or error

**4. How do you specify that an attribute can be applied to multiple elements?**

a) Using the [Multiple] attribute  
b) Using the AllowMultiple parameter in [AttributeUsage]  
c) Using the MultipleUse keyword  
d) It is not possible in C#  
**Answer:** b) Using the AllowMultiple parameter in [AttributeUsage]

**5. What namespace is required to work with attributes in C#?**

a) System.Reflection  
b) System.Attributes  
c) System.Metadata  
d) System.Data  
**Answer:** a) System.Reflection

**6. What is the default value of AllowMultiple in the [AttributeUsage] attribute?**

a) true  
b) false  
c) null  
d) undefined  
**Answer:** b) false

**7. What does the [Conditional] attribute do?**

a) Specifies conditions under which a method should be executed  
b) Ensures a method always executes  
c) Marks a method for deletion  
d) None of the above  
**Answer:** a) Specifies conditions under which a method should be executed

**8. Which of the following is a valid way to create a custom attribute in C#?**

a) Deriving from System.Attribute  
b) Using the NewAttribute keyword  
c) Extending System.Object  
d) Overriding the Attribute method  
**Answer:** a) Deriving from System.Attribute

**9. What is the purpose of the Message property in the [Obsolete] attribute?**

a) To store a custom error message when the obsolete element is used  
b) To specify the version in which the method was deprecated  
c) To automatically replace the obsolete method with a new one  
d) To enforce error logging in deprecated methods  
**Answer:** a) To store a custom error message when the obsolete element is used

**10. How can attributes be retrieved at runtime?**

a) Using the typeof operator and System.Reflection  
b) Using the GetAttribute method  
c) Using the FindAttribute method  
d) Attributes cannot be retrieved at runtime  
**Answer:** a) Using the typeof operator and System.Reflection