# Multiple Choice Questions on Enums in C#

1. 1. What is an enumeration in C#?

* a) A reference type
* b) A value type that contains a set of named integer constants
* c) A type of loop in C#
* d) A class that inherits multiple interfaces

\*\*Answer:\*\* b

1. 2. Which keyword is used to define an enumeration in C#?

* a) enum
* b) enumeration
* c) const
* d) type

\*\*Answer:\*\* a

1. 3. What is the default underlying type of an enum in C#?

* a) string
* b) double
* c) int
* d) float

\*\*Answer:\*\* c

1. 4. What is the default integer value of the first element in an enum if no values are explicitly assigned?

* a) 1
* b) 0
* c) -1
* d) It must be assigned explicitly

\*\*Answer:\*\* b

1. 5. Which of the following is the correct syntax for defining an enum in C#?

* a) enum Colors { Red = 1, Green, Blue }
* b) enum Colors: string { Red, Green, Blue }
* c) enum Colors -> { Red, Green, Blue }
* d) enum Colors { Red; Green; Blue; }

\*\*Answer:\*\* a

1. 6. What happens when you explicitly assign integer values to some members of an enum and leave others unassigned?

* a) The unassigned members default to 0
* b) Compilation fails
* c) The unassigned members take the previous value +1
* d) The unassigned members take random values

\*\*Answer:\*\* c

1. 7. Can an enum in C# inherit from another enum?

* a) Yes, by using the : operator
* b) No, enums cannot inherit from other enums
* c) Yes, but only if the base enum is declared as public
* d) Yes, but only in .NET Core

\*\*Answer:\*\* b

1. 8. How can you explicitly convert an enum to an integer in C#?

* a) int value = Colors.Red;
* b) int value = (int)Colors.Red;
* c) int value = Convert.ToInt32(Colors.Red);
* d) Both b and c

\*\*Answer:\*\* d

1. 9. Which method can be used to get the string name of an enum value in C#?

* a) ToString()
* b) Enum.NameOf()
* c) Enum.GetValue()
* d) ToEnumString()

\*\*Answer:\*\* a

1. 10. Which of the following statements about enums in C# is correct?

* a) Enum values can be assigned any data type
* b) Enum values can be compared using relational operators
* c) Enums must always start from zero
* d) Enums cannot be used in switch statements

\*\*Answer:\*\* b