

C++ TEST-17 (ENUMERATION)

Total points 50/50 ?

STUDENT NAME *

VIVA

✓ 1. What does the keyword enum stand for in C++? *

1/1

- ☐ A) Enumerator
- ☐ B) Enumeration
- ☐ C) Enumerated data type
- ☒ D) Both B and C



✓ 2. What is an enumeration in C++? *

1/1

- ☒ A) A user-defined data type consisting of named integer constants
- ☐ B) A predefined integer type
- ☐ C) A floating-point type
- ☐ D) A loop



✓ 3. Which keyword is used to declare an enumeration? *

1/1

- ☒ A) enum
- ☐ B) enumeration
- ☐ C) enumtype
- ☐ D) typedef



✓ 4. What is the default underlying data type of an enum in C++? *

1/1

- ☐ A) float
- ☐ B) char
- ☒ C) int
- ☐ D) double



✓ 5. Which of the following correctly declares an enum? *

1/1

- ☒ A) enum Color { Red, Green, Blue };
- ☐ B) Color enum { Red, Green, Blue };
- ☐ C) enum { Red, Green, Blue } Color;
- ☐ D) enumeration Color (Red, Green, Blue);



✓ 6. By default, the value of the first enum constant is: *

1/1

- ☐ A) 1
- ☒ B) 0
- ☐ C) Random
- ☐ D) -1



✓ 7. If the first value of an enum is not assigned, what value will it have? *

1/1

- ☒ A) 0
- ☐ B) 1
- ☐ C) Null
- ☐ D) Random



✓ 8. What will be the value of Blue in this enum? *

1/1

```
enum Color { Red = 5, Green, Blue };
```

- ☐ A) 5
- ☐ B) 6
- ☒ C) 7
- ☐ D) 8



✓ 9. What is the output of the following code? *

1/1

```
enum Day { Mon, Tue, Wed };
```

```
Day d = Tue;
```

```
cout << d;
```

☐ A) Mon

☐ B) Tue

☒ C) 1

☐ D) 2



✓ 10. Can enumeration constants have the same value? *

1/1

☒ A) Yes

☐ B) No



✓ 11. Can we assign values manually to enum constants? *

1/1

☒ A) Yes

☐ B) No



✓ 12. What is the scope of enum members in C++ (before C++11)? *

1/1

- ☒ A) Global by default
- ☐ B) Local
- ☐ C) Protected
- ☐ D) Private



✓ 13. What new feature was introduced in C++11 for enums? *

1/1

- ☒ A) Strongly typed enums (enum class)
- ☐ B) Automatic conversion to strings
- ☐ C) Nested enums
- ☐ D) None



✓ 14. Which is the correct syntax for an enum class? *

1/1

- ☒ A) enum class Color { Red, Green, Blue };
- ☐ B) class enum Color { Red, Green, Blue };
- ☐ C) enum Color class { Red, Green, Blue };
- ☐ D) enumclass Color { Red, Green, Blue };



✓ 15. What is the main difference between enum and enum class? *

1/1

- ☒ A) enum class has scoped and type-safe enumerators
- ☐ B) enum class is not type-safe
- ☐ C) enum allows same names in different enums
- ☐ D) Both are identical



✓ 16. Can we use enum inside a class? *

1/1

- ☒ A) Yes
- ☐ B) No



✓ 17. Can we define an enum inside a namespace? *

1/1

- ☒ A) Yes
- ☐ B) No



✓ 18. What is the default value of an uninitialized enum variable? *

1/1

- ☐ A) 0
- ☐ B) Undefined
- ☐ C) Random
- ☒ D) First enumerator value



✓ 19. Which of the following is valid? *

1/1

- ☐ A) enum { A, B, C };
- ☐ B) enum Color { Red, Green };
- ☒ C) Both
- ☐ D) None



✓ 20. Which of the following can hold duplicate names across enums? *

1/1

- ☒ A) enum class
- ☐ B) normal enum



✓ 21. Which of the following allows implicit conversion to int? *

1/1

- ☒ A) enum
- ☐ B) enum class



✓ 22. Which of the following does NOT allow implicit conversion to int? *

1/1

- ☐ A) enum
- ☒ B) enum class



✓ 23. Can we use arithmetic operations on enum values? *

1/1

☒ A) Yes



☐ B) No

✓ 24. What will be the value of Wed in this enum? *

1/1

```
enum Days { Mon = 10, Tue, Wed };
```

☐ A) 10

☐ B) 11

☒ C) 12



☐ D) 13

✓ 25. What will be the output of the following code? *

1/1

```
enum Test { A = 2, B, C = 10, D };
```

```
cout << D;
```

☐ A) 3

☐ B) 10

☒ C) 11



☐ D) 12

✓ 26. Can enums have duplicate names in the same scope? *

1/1

- ☒ A) No
- ☐ B) Yes



✓ 27. Can an enum be forward-declared in C++11? *

1/1

- ☒ A) Yes
- ☐ B) No



✓ 28. Which is correct forward declaration? *

1/1

- ☐ A) enum Color;
- ☐ B) enum class Color;
- ☒ C) Both



✓ 29. Can we specify the underlying type of enum in C++11? *

1/1

- ☒ A) Yes
- ☐ B) No



✓ 30. Which syntax specifies the underlying type? *

1/1

- ☒ A) enum Color : char { Red, Blue };
- ☐ B) enum : char Color { Red, Blue };
- ☐ C) enum(Color, char) { Red, Blue };
- ☐ D) enum Color(char) { Red, Blue };



✓ 31. What happens if we assign values to enum constants in random order?

*1/1

- ☒ A) Compiler allows it
- ☐ B) Compiler error



✓ 32. What is the output? *

1/1

```
enum Alpha { X=5, Y=2, Z };  
cout << Z;
```

- ☐ A) 2
- ☒ B) 3
- ☐ C) 5
- ☐ D) 6



✓ 33. Can enums contain duplicate constant values? *

1/1

☒ A) Yes



☐ B) No

✓ 34. Which of the following can be compared using ==? *

1/1

☐ A) enum

☐ B) enum class

☒ C) Both



✓ 35. What will be printed? *

1/1

```
enum Fruit { Apple, Mango = 3, Banana };
```

```
cout << Banana;
```

☐ A) 2

☐ B) 3

☒ C) 4



☐ D) 1

✓ 36. Can we use enum constants in switch statements? *

1/1

☒ A) Yes



☐ B) No



✓ 37. Which of these is true about enum class? *

1/1

- ☒ A) Enum members are accessed with scope resolution operator ::
- ☐ B) They are implicitly convertible to int
- ☐ C) Both
- ☐ D) None



✓ 38. What is printed by this code? *

1/1

```
enum class Light { Red, Green, Blue };  
  
cout << (int)Light::Green;
```

- ☐ A) 0
- ☒ B) 1
- ☐ C) 2
- ☐ D) Error



✓ 39. Can enums be declared inside functions? *

1/1

- ☒ A) Yes
- ☐ B) No



✓ 40. Can we have an array of enum type? *

1/1

☒ A) Yes



☐ B) No

✓ 41. Can enums be used as return types in functions? *

1/1

☒ A) Yes



☐ B) No

✓ 42. Can we assign a floating-point value to an enum constant? *

1/1

☒ A) No, only integers are allowed



☐ B) Yes

✓ 43. What is the output? *

1/1

```
enum Data { A=3, B=5, C=B+2 };  
cout << C;
```

☐ A) 5

☒ B) 7



☐ C) 2

☐ D) 3

✓ 44. What happens if we print an enum variable directly with cout? * 1/1

- ☒ A) It prints the integer value
- ☐ B) It prints the name
- ☐ C) It gives error



✓ 45. Can an enum be empty? * 1/1

- ☒ A) No
- ☐ B) Yes



✓ 46. Can we assign enum values outside its defined range? * 1/1

- ☒ A) Yes, using static_cast or int assignment
- ☐ B) No



✓ 47. Which C++ version introduced enum class? * 1/1

- ☐ A) C++03
- ☒ B) C++11
- ☐ C) C++14
- ☐ D) C++98



✓ 48. Can two different enum classes have same enumerator names? * 1/1

☒ A) Yes



☐ B) No

✓ 49. What will happen? * 1/1

```
enum class Shape { Circle, Square };
```

```
Shape s = Shape::Circle;
```

```
cout << s;
```

☐ A) Prints 0

☐ B) Prints Circle

☒ C) Compile error



☐ D) Runtime error

✓ 50. Which of the following statements is TRUE about enumeration in C++? *1/1

☐ A) Enums provide meaningful names to integer constants

☐ B) Enums can only hold integer values

☐ C) Enums improve readability and maintainability

☒ D) All of the above



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