

# C++ TEST-20 (FRIEND FUNCTION)

Total points 50/50 ?

STUDENT NAME \*

VIVA  
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✓ 1. What is a friend function in C++? \*

1/1

- ☐ A) A member function of a class
- ☒ B) A function that can access private and protected members of a class ✓
- ☐ C) A constructor
- ☐ D) A virtual function

✓ 2. Which keyword is used to declare a friend function? \*

1/1

- ☐ A) protected
- ☒ B) friend ✓
- ☐ C) public
- ☐ D) extern

✓ 3. A friend function is declared: \*

1/1

- ☐ A) Inside the class
- ☐ B) Outside the class only
- ☒ C) Inside the class but defined outside
- ☐ D) Inside main()



✓ 4. Can a friend function access private members of a class? \*

1/1

- ☒ A) Yes
- ☐ B) No



✓ 5. A friend function is: \*

1/1

- ☐ A) A member of the class
- ☒ B) Not a member of the class



✓ 6. Can a friend function be called using the object of the class? \*

1/1

- ☐ A) Yes
- ☒ B) No



✓ 7. How many classes can have the same friend function? \*

1/1

- ☐ A) Only one
- ☐ B) Two
- ☒ C) As many as needed
- ☐ D) Only derived classes



✓ 8. Which of the following statements is true about friend functions? \*

1/1

- ☐ A) They are in the public section only
- ☒ B) They can be declared in any section (public, private, protected)



✓ 9. Can a friend function be private? \*

1/1

- ☒ A) Yes
- ☐ B) No



✓ 10. A friend function is invoked using: \*

1/1

- ☐ A) Object name
- ☐ B) Class name
- ☒ C) Function name directly



✓ 11. Which of the following can be a friend function? \*

1/1

- ☐ A) Normal function
- ☐ B) Member function of another class
- ☒ C) Both A and B



✓ 12. Can a constructor be a friend function? \*

1/1

- ☐ A) Yes
- ☒ B) No



✓ 13. Can a destructor be a friend function? \*

1/1

- ☐ A) Yes
- ☒ B) No



✓ 14. Can we have a friend class in C++? \*

1/1

- ☒ A) Yes
- ☐ B) No



✓ 15. Friend functions are used to: \*

1/1

- ☐ A) Protect data
- ☒ B) Share access between classes
- ☐ C) Restrict inheritance



✓ 16. Friend functions violate which OOP principle? \*

1/1

- ☐ A) Abstraction
- ☒ B) Encapsulation
- ☐ C) Inheritance



✓ 17. What type of arguments does a friend function use to access class members? \*1/1

- ☐ A) Pass by reference
- ☐ B) Pass by pointer or object
- ☒ C) Both A and B



✓ 18. Can a friend function be overloaded? \*

1/1

- ☒ A) Yes
- ☐ B) No



✓ 19. Can a friend function be virtual? \*

1/1

- ☐ A) Yes
- ☒ B) No



✓ 20. Can a friend function be inline? \*

1/1

- ☒ A) Yes
- ☐ B) No



✓ 21. What access specifier can a friend function be declared under? \*

1/1

- ☐ A) Only public
- ☐ B) Only private
- ☒ C) Any section



✓ 22. Can a friend function be a member of another class? \*

1/1

- ☒ A) Yes
- ☐ B) No



✓ 23. How many friend functions can a class have? \*

1/1

- ☐ A) Only one
- ☐ B) Two
- ☒ C) Unlimited



✓ 24. Which is true about friend functions? \*

1/1

- ☐ A) They are inherited
- ☒ B) They are not inherited



✓ 25. Which is false about friend functions? \*

1/1

- ☐ A) They can access private data
- ☐ B) They can be called with class name
- ☒ C) They are called using objects



✓ 26. Can a friend function access static members of a class? \*

1/1

- ☒ A) Yes
- ☐ B) No



✓ 27. Can a friend function access non-static members of a class? \*

1/1

- ☒ A) Yes
- ☐ B) No



✓ 28. What is the correct syntax to declare a friend function? \*

1/1

- ☒ A) friend void fun();
- ☐ B) void friend fun();
- ☐ C) friend: void fun();
- ☐ D) private friend fun();



✓ 29. What happens if we don't define a friend function declared in class? \* 1/1

- ☐ A) Compiler error
- ☒ B) Linker error



✓ 30. Can a class have both friend functions and friend classes? \* 1/1

- ☒ A) Yes
- ☐ B) No



✓ 31. Friend function helps mainly in: \* 1/1

- ☐ A) Polymorphism
- ☒ B) Data sharing between unrelated classes
- ☐ C) Abstraction



✓ 32. Can a friend function be a template? \* 1/1

- ☒ A) Yes
- ☐ B) No



✓ 33. When are friend functions most commonly used? \* 1/1

- ☒ A) Operator overloading
- ☐ B) Inheritance
- ☐ C) Abstract classes





✓ 34. Can a friend function of one class be a member of another? \* 1/1

- ☒ A) Yes
- ☐ B) No



✓ 35. Friend functions are declared in the class definition but: \* 1/1

- ☒ A) Defined outside
- ☐ B) Defined inside



✓ 36. The friend function definition must include which argument? \* 1/1

- ☐ A) Pointer to class
- ☒ B) Object of class



✓ 37. The keyword friend should appear: \* 1/1

- ☒ A) In the declaration only
- ☐ B) In the definition only
- ☐ C) Both declaration and definition



✓ 38. Can two classes be declared as friends to each other? \* 1/1

- ☒ A) Yes
- ☐ B) No



✓ 39. Friend function is useful when: \*

1/1

- ☐ A) Classes are related through inheritance
- ☒ B) Classes are unrelated but need to share data



✓ 40. Can a friend function access protected members? \*

1/1

- ☒ A) Yes
- ☐ B) No



✓ 41. Can a friend function be recursive? \*

1/1

- ☒ A) Yes
- ☐ B) No



✓ 42. Which of these cannot be declared as friend? \*

1/1

- ☐ A) Function
- ☐ B) Class
- ☒ C) Object



✓ 43. Which statement is false about friend functions? \*

1/1

- ☐ A) They increase coupling
- ☒ B) They support encapsulation
- ☐ C) They can access private data



✓ 44. Can a friend function be used to overload operators? \*

1/1

- ☒ A) Yes
- ☐ B) No



✓ 45. A friend function declaration is placed: \*

1/1

- ☒ A) In the class that grants friendship
- ☐ B) In both classes



✓ 46. What happens if a friend function tries to access a non-existent member?

\*1/1

- ☒ A) Compiler error
- ☐ B) Runtime error



✓ 47. A friend function can be part of: \*

1/1

- ☐ A) Namespace
- ☐ B) Another class
- ☐ C) Global scope
- ☒ D) All of the above



✓ 48. Can a friend function be declared in multiple classes? \*

1/1

- ☒ A) Yes
- ☐ B) No



✓ 49. Friendship in C++ is: \*

1/1

- ☒ A) One-way
- ☐ B) Two-way automatically



✓ 50. Which of the following best describes a friend function? \*

1/1

- ☒ A) It is a non-member function with special access privileges
- ☐ B) It is a private function
- ☐ C) It is inherited by derived classes



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