

C++ TEST-20 (FRIEND FUNCTION)

Total points 50/50 

STUDENT NAME *

VIVA

 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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