

C++ TEST-18 (FUNCTION OVERLOADING & OVERRIDING)

Total points 50/50 ?

STUDENT NAME *

Mayank

✓ 1. Function overloading is an example of: *

1/1

- ☒ A) Compile-time polymorphism
- ☐ B) Run-time polymorphism
- ☐ C) Dynamic binding
- ☐ D) Late binding



✓ 2. Function overriding is an example of: *

1/1

- ☐ A) Compile-time polymorphism
- ☒ B) Run-time polymorphism
- ☐ C) Static binding
- ☐ D) Function hiding



✓ 3. Which of the following is required for function overriding? *

1/1

- ☐ A) Same function name and different parameters
- ☒ B) Same function name and same parameters in base and derived class
- ☐ C) Different function name
- ☐ D) Different return type only

✓

✓ 4. Function overloading occurs in: *

1/1

- ☐ A) Inheritance
- ☒ B) Same scope
- ☐ C) Friend function
- ☐ D) Constructor only

✓

✓ 5. Function overriding occurs between: *

1/1

- ☐ A) Functions in same class
- ☒ B) Base class and derived class
- ☐ C) Constructors
- ☐ D) Global and local functions

✓

✓ 6. Overloaded functions must differ in: *

1/1

- ☐ A) Return type
- ☒ B) Number or type of parameters
- ☐ C) Function name
- ☐ D) Access specifier



✓ 7. Can we overload a function based on return type only? *

1/1

- ☐ A) Yes
- ☒ B) No
- ☐ C) Only if it's a constructor
- ☐ D) Only in templates



✓ 8. Which keyword is used to override a base class function in C++11? *

1/1

- ☐ A) virtual
- ☒ B) override
- ☐ C) reimplement
- ☐ D) redefine



✓ 9. Which keyword is used to prevent overriding a function? *

1/1

- ☐ A) stop
- ☒ B) final
- ☐ C) const
- ☐ D) prevent



✓ 10. Which of the following allows dynamic binding? *

1/1

- ☐ A) Overloading
- ☒ B) Overriding
- ☐ C) Inline functions
- ☐ D) Constructor overloading



✓ 11. What is the main advantage of function overloading? *

1/1

- ☐ A) Saves memory
- ☒ B) Improves code readability
- ☐ C) Increases runtime
- ☐ D) Reduces inheritance



✓ 12. Which of these must be declared as virtual for overriding? *

1/1

- ☐ A) Constructors
- ☐ B) Destructors
- ☒ C) Member functions
- ☐ D) Static functions



✓ 13. Can a constructor be overloaded in C++? *

1/1

- ☒ A) Yes
- ☐ B) No



✓ 14. Can a destructor be overloaded in C++? *

1/1

- ☐ A) Yes
- ☒ B) No



✓ 15. Function overriding provides: *

1/1

- ☐ A) Compile-time polymorphism
- ☒ B) Run-time polymorphism



✓ 16. Overloaded functions have the same: *

1/1

- ☒ A) Name
- ☐ B) Parameters
- ☐ C) Return type
- ☐ D) Both A and C



✓ 17. Can static functions be overridden? *

1/1

- ☐ A) Yes
- ☒ B) No



✓ 18. Which of these cannot be overloaded? *

1/1

- ☐ A) Constructors
- ☒ B) Destructors
- ☐ C) Operators
- ☐ D) Normal functions



✓ 19. Which of the following cannot be overloaded in C++? *

1/1

- ☒ A) sizeof
- ☐ B) +
- ☐ C) []
- ☐ D) ()



✓ 20. In function overriding, base class function must be declared as: * 1/1

- ☐ A) static
- ☐ B) inline
- ☒ C) virtual
- ☐ D) public



✓ 21. When an overloaded function is called, which version executes? * 1/1

- ☐ A) The first one declared
- ☒ B) The most specific match
- ☐ C) The last one declared
- ☐ D) None



✓ 22. Function overriding can only happen with: * 1/1

- ☐ A) Static functions
- ☒ B) Virtual functions
- ☐ C) Inline functions
- ☐ D) None of these



✓ 23. What happens if a base class and derived class have functions with the same name but different parameters? *1/1

- ☐ A) Overriding
- ☐ B) Overloading
- ☒ C) Function hiding
- ☐ D) Virtual call



✓ 24. Can overloaded functions be defined in different scopes? * 1/1

- ☒ A) Yes
- ☐ B) No



✓ 25. Which of the following cannot be overloaded? * 1/1

- ☐ A) Function call operator
- ☐ B) Comma operator
- ☒ C) Scope resolution operator (::)
- ☐ D) Subscript operator



✓ 26. Which of these functions can be overloaded? * 1/1

- ☐ A) main()
- ☒ B) operator new
- ☐ C) sizeof
- ☐ D) ?:



✓ 27. **Function overriding happens when a derived class function has: *** 1/1

- ☐ A) Different name
- ☒ B) Same name, same parameters
- ☐ C) Same name, different return type



✓ 28. **Virtual functions enable: *** 1/1

- ☐ A) Static binding
- ☒ B) Dynamic binding



✓ 29. **Which one among the following can be overloaded? *** 1/1

- ☒ A) ->
- ☐ B) .
- ☐ C) ::



✓ 30. **Function overloading helps in: *** 1/1

- ☐ A) Reducing function names
- ☐ B) Reducing code size
- ☐ C) Reducing redundancy
- ☒ D) All of the above



✓ 31. Can constructors be virtual? *

1/1

- ☐ A) Yes
- ☒ B) No



✓ 32. Can destructors be virtual? *

1/1

- ☒ A) Yes
- ☐ B) No



✓ 33. What will happen if we call a base class function without virtual keyword?

*1/1

- ☒ A) Base function always called
- ☐ B) Derived function called



✓ 34. In function overriding, which function is executed? *

1/1

- ☐ A) Base class function
- ☒ B) Derived class function



✓ 35. Can overloaded functions have default arguments? *

1/1

- ☒ A) Yes
- ☐ B) No



✓ 36. **Function overriding requires:** *

1/1

- ☒ A) Inheritance
- ☐ B) Function overloading
- ☐ C) Default parameters



✓ 37. **Function overloading is resolved during:** *

1/1

- ☒ A) Compile-time
- ☐ B) Run-time



✓ 38. **Function overriding is resolved during:** *

1/1

- ☐ A) Compile-time
- ☒ B) Run-time



✓ 39. **What is used to achieve dynamic binding?** *

1/1

- ☒ A) Virtual function
- ☐ B) Inline function
- ☐ C) Template



✓ 40. Which of these can be overloaded in C++? *

1/1

- ☐ A) new operator
- ☐ B) delete operator
- ☒ C) Both



✓ 41. If both base and derived class have constructors, which runs first? *

1/1

- ☒ A) Base class
- ☐ B) Derived class



✓ 42. If both base and derived class have destructors, which runs first? *

1/1

- ☐ A) Base class
- ☒ B) Derived class



✓ 43. Function overloading is also known as: *

1/1

- ☒ A) Static polymorphism
- ☐ B) Dynamic polymorphism



✓ 44. Function overriding is also known as: *

1/1

- ☐ A) Early binding
- ☒ B) Late binding



✓ 45. In C++, overloaded functions are distinguished by: *

1/1

- ☐ A) Return type
- ☒ B) Number and type of arguments



✓ 46. Can a virtual function be overloaded? *

1/1

- ☒ A) Yes
- ☐ B) No



✓ 47. Which of the following statements is true? *

1/1

- ☐ A) Overriding happens within the same class
- ☐ B) Overloading happens across base and derived
- ☒ C) Overriding happens across inheritance hierarchy



✓ 48. Overloaded functions are linked using: *

1/1

- ☒ A) Static linkage
- ☐ B) Dynamic linkage



✓ 49. Overridden functions are linked using: *

1/1

- ☐ A) Static linkage
- ☒ B) Dynamic linkage



✓ 50. Which feature of OOP allows defining multiple functions with the same name but different parameters? *1/1

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



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