

# C++ TEST-13 (INHERITANCE)

Total points 50/50



**STUDENT NAME \***

VIVA

✓ 1. What is inheritance in C++? \*

1/1

- A) Hiding data from users
- B) Creating multiple objects
- C) Deriving a new class from an existing one
- D) Overloading operators



✓ 2. Which keyword is used to inherit a class in C++? \*

1/1

- A) derived
- B) inherits
- C) extends
- D) : (colon)



✓ 3. Which of the following is the base class in inheritance? \*

1/1

- A) The class being derived
- B) The class from which another class is derived
- C) The main class
- D) The friend class



✓ 4. The class that inherits from another class is called: \*

1/1

- A) Base class
- B) Parent class
- C) Derived class
- D) None of these

✓

✓ 5. In class B : public A, which is the base class? \*

1/1

- A) B
- B) A
- C) Both
- D) None

✓

✓ 6. How many types of inheritance does C++ support? \*

1/1

- A) 2
- B) 3
- C) 4
- D) 5

✓

✓ 7. Which of the following is *not* a type of inheritance in C++? \*

1/1

- A) Single
- B) Double
- C) Multiple
- D) Hierarchical

✓

✓ 8. In multiple inheritance, a class can inherit from: \*

1/1

- A) Only one class
- B) Two classes
- C) More than one class
- D) None

✓

✓ 9. The syntax class B : public A represents which type of inheritance? \* 1/1

- A) Single inheritance
- B) Multiple inheritance
- C) Multilevel inheritance
- D) Hybrid inheritance

✓

✓ 10. When a class is derived from a derived class, it is called: \*

1/1

- A) Single inheritance
- B) Multilevel inheritance
- C) Multiple inheritance
- D) Hierarchical inheritance

✓

✓ 11. Which of the following access specifiers can be used in inheritance? \*1/1

- A) public
- B) private
- C) protected
- D) All of the above

✓

✓ 12. If a class is derived as class B : private A, then members of A become:

\*1/1

- A) Public in B
- B) Private in B
- C) Protected in B
- D) Unchanged

✓

✓ 13. Public inheritance means: \*

1/1

- A) Public members of base become private in derived
- B) Public members of base remain public
- C) All members become protected
- D) None

✓

✓ 14. Private inheritance means: \*

1/1

- A) Public and protected members of base become private in derived
- B) Public and protected members remain unchanged
- C) Base class becomes friend
- D) None

✓

✓ 15. Which inheritance is used when multiple classes derive from a single base class?

\*1/1

- A) Multiple
- B) Multilevel
- C) Hierarchical
- D) Hybrid

✓

✓ 16. Which inheritance type causes the “Diamond Problem”? \*

1/1

- A) Single
- B) Multiple
- C) Multilevel
- D) Hierarchical

✓

✓ 17. The Diamond Problem occurs due to ambiguity of: \*

1/1

- A) Private members
- B) Constructors
- C) Multiple base classes with common ancestors
- D) None

✓

✓ 18. Which keyword is used to solve ambiguity in multiple inheritance? \*

1/1

- A) virtual
- B) protected
- C) static
- D) friend

✓

✓ 19. Virtual inheritance ensures: \*

1/1

- A) Multiple copies of base class exist
- B) Only one copy of base class exists
- C) No inheritance happens
- D) None

✓

✓ 20. Constructors are called in which order during inheritance? \*

1/1

- A) Derived to base
- B) Base to derived
- C) Random
- D) None

✓

✓ 21. Destructors are called in which order during inheritance? \*

1/1

- A) Base to derived
- B) Derived to base
- C) Random
- D) None

✓

✓ 22. Which constructor is called first in inheritance? \*

1/1

- A) Base class constructor
- B) Derived class constructor
- C) Both simultaneously
- D) None

✓

✓ 23. What is inherited from the base class? \*

1/1

- A) Constructor and destructor
- B) Private members
- C) Public and protected members
- D) Static members only

✓

✓ 24. Which members of base class are not inherited? \*

1/1

- A) Public
- B) Protected
- C) Private
- D) All

✓

✓ 25. To access private members of base class, we use: \*

1/1

- A) Friend function
- B) Protected function
- C) Derived class directly
- D) None

✓

✓ 26. Can constructors be inherited in C++? \*

1/1

- A) Yes
- B) No
- C) Only if public
- D) Only virtual

✓

✓ 27. What is the use of the super keyword in C++? \*

1/1

- A) To call base constructor
- B) No such keyword in C++
- C) To call virtual function
- D) To inherit

✓

✓ 28. Which function allows access to base class method with same name \*1/1  
in derived class?

- A) super()
- B) parent()
- C) Base::function()
- D) className()

✓

✓ 29. Can a derived class override a non-virtual function? \* 1/1

- A) Yes, but it hides the base version
- B) No
- C) Yes, completely replaces it
- D) Only if protected

✓

✓ 30. In C++, virtual inheritance avoids: \* 1/1

- A) Data redundancy
- B) Function overloading
- C) Encapsulation
- D) Polymorphism

✓

✓ 31. What happens if a base class has a virtual destructor? \*

1/1

- A) It gives an error
- B) Derived destructor also becomes virtual
- C) No effect
- D) It deletes base class data

✓

✓ 32. Can we inherit multiple base classes? \*

1/1

- A) Yes
- B) No
- C) Only with templates
- D) Only virtually

✓

✓ 33. What is hybrid inheritance? \*

1/1

- A) Combination of more than one type of inheritance
- B) Combination of templates and classes
- C) Virtual inheritance only
- D) None

✓

✓ 34. Which inheritance type forms a tree-like structure? \*

1/1

- A) Multiple
- B) Hierarchical
- C) Hybrid
- D) Multilevel

✓

✓ 35. What will happen if both base and derived class have the same function name?

\*1/1

- A) Compiler error
- B) Derived class hides base class function
- C) Both functions are called
- D) None

✓

✓ 36. Which of the following allows derived class to redefine a function? \*

1/1

- A) Overloading
- B) Overriding
- C) Hiding
- D) Masking

✓

✓ 37. To achieve function overriding, which keyword is required in base class? \*1/1

- A) inline
- B) virtual
- C) static
- D) override

✓

✓ 38. Can a derived class access protected members of base class? \* 1/1

- A) Yes
- B) No
- C) Only through objects
- D) Only if public

✓

✓ 39. The syntax class C : public A, public B is an example of: \* 1/1

- A) Multiple inheritance
- B) Multilevel inheritance
- C) Hybrid inheritance
- D) Hierarchical inheritance

✓

✓ 40. If class B and C inherit from A, and D inherits from both B and C, this \*1/1 is:

- A) Single inheritance
- B) Multiple inheritance
- C) Hybrid inheritance
- D) Hierarchical inheritance

✓

✓ 41. Which inheritance mechanism allows code reuse? \*

1/1

- A) Encapsulation
- B) Inheritance
- C) Abstraction
- D) Polymorphism

✓

✓ 42. Can friend functions be inherited? \*

1/1

- A) Yes
- B) No
- C) Only virtual ones
- D) Only public

✓

✓ 43. What is the default mode of inheritance in a class? \*

1/1

- A) Public
- B) Private
- C) Protected
- D) None

✓

✓ 44. What is the default mode of inheritance in a struct? \*

1/1

- A) Public
- B) Private
- C) Protected
- D) None

✓

✓ 45. Which feature of OOP allows reusability? \*

1/1

- A) Polymorphism
- B) Abstraction
- C) Inheritance
- D) Encapsulation

✓

✓ 46. When an object of derived class is created, which constructor runs first? \*1/1

- A) Derived
- B) Base
- C) Both
- D) None

✓

✓ 47. Which of the following can be inherited? \*1/1

- A) Static members
- B) Constructors
- C) Friend functions
- D) Destructors

✓

✓ 48. Virtual inheritance is used to prevent: \*1/1

- A) Function overriding
- B) Multiple copies of base class
- C) Constructor duplication
- D) Access specifier conflicts

✓

✓ 49. Which of the following inheritance types is *not* supported directly in \*1/1 C++?

- A) Hybrid
- B) Multilevel
- C) Multiple
- D) Hierarchical

✓

✓ 50. What is the main advantage of inheritance? \*1/1

- A) Speed
- B) Code reusability
- C) Memory management
- D) Compilation speed

✓

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