

C++ TEST-15 (CONSTRUCTORS & DESTRUCTORS)

Total points 50/50 

STUDENT NAME *

VIVA

1. What is a constructor in C++? *

1/1

- A) A special function that initializes objects
- B) A function that destroys objects
- C) A function that allocates memory
- D) A static function



2. What is a destructor in C++? *

1/1

- A) A function that creates objects
- B) A function that deletes objects and frees resources
- C) A constructor
- D) A virtual function



✓ 3. What is the name of the constructor function in a class? *

1/1

- A) Same as the class name
- B) Any name
- C) start()
- D) init()

✓

✓ 4. What is the name of the destructor in a class? *

1/1

- A) Same as the class name preceded by ~
- B) Any name
- C) end()
- D) free()

✓

✓ 5. Which of the following statements about constructors is true? *

1/1

- A) They can return a value
- B) They cannot have a return type
- C) They must return int
- D) They return void

✓

✓ 6. Which keyword is used to define a constructor? *

1/1

- A) constructor
- B) init
- C) No keyword needed
- D) create



✓ 7. A constructor is called when: *

1/1

- A) An object is destroyed
- B) An object is created
- C) A function ends
- D) The program terminates



✓ 8. A destructor is called when: *

1/1

- A) An object is created
- B) An object goes out of scope or is deleted
- C) The constructor is called
- D) None



✓ 9. Can a constructor be virtual in C++? *

1/1

- A) Yes
- B) No



✓ 10. Can a destructor be virtual in C++? *

1/1

- A) Yes
- B) No



✓ 11. What is the purpose of a virtual destructor? *

1/1

- A) To ensure correct destruction of derived objects
- B) To call constructors
- C) To make a class abstract
- D) None



✓ 12. How many types of constructors are there in C++? *

1/1

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



✓ 13. Which of the following are types of constructors? *

1/1

- A) Default, Parameterized, Copy
- B) Public, Private, Protected
- C) Static, Virtual, Inline
- D) Friend, Pure, Derived



✓ 14. What is a default constructor? *

1/1

- A) A constructor with no parameters
- B) A constructor with parameters
- C) A constructor that copies objects
- D) A virtual constructor

✓

✓ 15. What is a parameterized constructor? *

1/1

- A) A constructor that takes arguments
- B) A constructor with no arguments
- C) A constructor that returns a value
- D) A private constructor

✓

✓ 16. What is a copy constructor? *

1/1

- A) Constructor that copies data from one object to another
- B) Constructor that deletes an object
- C) Constructor that initializes static data
- D) None

✓

✓ 17. Syntax of copy constructor: *

1/1

- A) `ClassName(ClassName &obj)`
- B) `ClassName(ClassName obj)`
- C) `ClassName(obj)`
- D) `ClassName = obj`



✓ 18. What happens if we don't define a constructor? *

1/1

- A) Compiler provides a default one
- B) Error occurs
- C) Program crashes
- D) None



✓ 19. How many constructors can a class have? *

1/1

- A) One
- B) Multiple (Overloaded)
- C) Two only
- D) None



✓ 20. Which concept allows multiple constructors in a class? *

1/1

- A) Constructor overloading
- B) Constructor chaining
- C) Inheritance
- D) Polymorphism

✓

✓ 21. What is the order of constructor execution in inheritance? *

1/1

- A) Base → Derived
- B) Derived → Base
- C) Random
- D) None

✓

✓ 22. What is the order of destructor execution in inheritance? *

1/1

- A) Base → Derived
- B) Derived → Base
- C) Random
- D) None

✓

✓ 23. Can constructors be overloaded? *

1/1

- A) Yes
- B) No

✓

✓ 24. Can destructors be overloaded? *

1/1

- A) Yes
- B) No

✓

✓ 25. Which constructor is invoked when an object is passed by value? *

1/1

- A) Default
- B) Copy
- C) Parameterized
- D) Virtual

✓

✓ 26. Which constructor is called when a new object is created using another object of the same class?

*1/1

- A) Copy constructor
- B) Default constructor
- C) Parameterized constructor
- D) Virtual constructor

✓

✓ 27. What is constructor initialization list used for? *

1/1

- A) To initialize class members before constructor body executes
- B) To delete variables
- C) To overload constructors
- D) To allocate heap memory

✓

✓ 28. Which constructor is automatically called when no arguments are given? *1/1

- A) Default constructor ✓
- B) Copy constructor
- C) Parameterized constructor
- D) Virtual constructor

✓ 29. When is a destructor called? *1/1

- A) When object is created
- B) When object goes out of scope ✓
- C) When main() starts
- D) Never

✓ 30. How many destructors can a class have? *1/1

- A) One ✓
- B) Two
- C) Many
- D) None

✓ 31. Can destructors be virtual? *1/1

- A) Yes ✓
- B) No

✓ 32. Can destructors be static? *

1/1

- A) Yes
- B) No

✓

✓ 33. Which of the following is true for a destructor? *

1/1

- A) Can have parameters
- B) Cannot have parameters
- C) Can be overloaded
- D) Can return a value

✓

✓ 34. Which of the following cannot be used inside a constructor? *

1/1

- A) return statement
- B) Assignment
- C) Function calls
- D) Loops

✓

✓ 35. Which function is called first in a class object lifecycle? *

1/1

- A) Constructor
- B) Destructor
- C) Copy constructor
- D) None

✓

✓ 36. Which operator triggers a destructor call explicitly? *

1/1

- A) delete
- B) new
- C) malloc
- D) create



✓ 37. Can constructors call other constructors? *

1/1

- A) Yes, using constructor delegation (C++11)
- B) No



✓ 38. Can a constructor call itself recursively? *

1/1

- A) No
- B) Yes



✓ 39. Can a destructor call another destructor? *

1/1

- A) No
- B) Yes



✓ 40. What happens if a class has pointer data members but no destructor?

*1/1

- A) Memory leak may occur
- B) Program runs normally
- C) Compiler fixes it
- D) None

✓

✓ 41. A constructor declared in private section is mainly used for: *

1/1

- A) Singleton design pattern
- B) Copying
- C) Deletion
- D) Multiple inheritance

✓

✓ 42. Which constructor is used when using new keyword to create an object dynamically?

*1/1

- A) Default or parameterized constructor
- B) Copy constructor
- C) Virtual constructor
- D) Static constructor

✓

✓ 43. Can destructors be explicitly called? *

1/1

- A) Yes, but not recommended
- B) No

✓

✓ 44. What is the symbol used for destructor declaration? *

1/1

- A) ~
- B) *
- C) &
- D) ^



✓ 45. What is a default copy constructor? *

1/1

- A) One automatically created by compiler
- B) User-defined only
- C) Always private
- D) None



✓ 46. Which statement is true about constructors and destructors? *

1/1

- A) Constructors allocate resources, destructors release them
- B) Constructors release resources
- C) Destructors create objects
- D) Both perform the same job



✓ 47. In multiple inheritance, which constructor executes first? *

1/1

- A) The leftmost base class constructor
- B) The rightmost base class constructor
- C) The derived class constructor
- D) Random order



✓ 48. Which of the following can be overloaded? *

1/1

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



✓ 49. Can you call a destructor explicitly on a statically created object? *

1/1

- A) Yes, but leads to undefined behavior
- B) No, compiler prevents it



✓ 50. Which of the following statements is correct? *

1/1

- A) Destructor has no parameters and no return type
- B) Destructor can be overloaded
- C) Destructor can be virtual only in private
- D) Constructor cannot be overloaded



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