MCQ for Day 3

Which of the following is not a fundamental data type in C++? 1. a) int b) float c) bool d) string 2. Which of the following correctly describes the purpose of the #include directive? a) It includes the content of a specified file into the program. b) It defines a macro. c) It is used to declare a function. d) It ends a function definition. What is the purpose of a constructor in a class? 3. a) To initialize objects of the class. b) To create a copy of an object. c) To destroy objects of the class. d) To allocate memory dynamically. Which of the following statements is true about destructors in C++3 a) A class can have multiple destructors. b) Destructors can take parameters. c) Destructors are called automatically when an object goes out of scope. d) Destructors must be called explicitly. 5. Which of the following is the correct syntax to declare a pointer to an integer? a) int* ptr; b) int &ptr; c) int ptr; d) int* &ptr; What is the output of the expression **sizeof(char)** in C++? 6. a) 1 b) 2 c) 4 d) 8 7. Which of the following is the correct way to declare a constant variable in C++? a) const int x = 10; b) int const x = 10; c) Both a and b d) None of the above

What is the default access specifier for members of a class in C++?

a) public

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b) private c) protected d) internal • 9. Which of the following is a correct way to allocate memory dynamically for an array of 10 integers? a) int* arr = new int[10]; b) int arr = new int[10]; c) int* arr = malloc(10 * sizeof(int)); d) int arr[10]; What will be the output of the following code? 10. int x = 10; int y = x++; cout << y; a) 9 b) 10 c) 11 d) Undefined behavior Which of the following is not a feature of object-oriented programming in C++? a) Encapsulation b) Inheritance c) Polymorphism d) Recursion In C++, which of the following operators cannot be overloaded? 12. a) + b)? c) [] d) () Which keyword is used to handle exceptions in C++? 13. a) try b) except c) catch d) finally Which of the following containers is part of the C++ Standard Template Library 14. (STL)? a) list b) array

c) hash map

d) set

15. What is the purpose of the virtual keyword in C++?

- a) To define a virtual function.
- b) To declare an abstract class.
- c) To allocate memory on the heap.
- d) To call the base class constructor.

16. Which of the following is a valid way to declare an inline function?

- a) inline int func() { return 0; }
- b) int inline func() { return 0; }
- c) Both a and b
- d) None of the above

17. Which of the following is not a type of inheritance in C++?

- a) Single inheritance
- b) Multiple inheritance
- c) Multilevel inheritance
- d) Redundant inheritance

18. What does the this pointer point to in a class member function?

- a) The class itself
- b) The member function
 - c) The current object
 - _ d) The base class object

19. Which of the following statements about namespaces in C++ is true?

- a) Namespaces provide a way to avoid name conflicts.
- b) Namespaces are used to define classes.
- c) Namespaces must be declared inside main().
- d) Namespaces cannot be nested.

20. What does the keyword friend indicate in C++?

- a) It grants a function access to the private members of a class.
- b) It creates a new class.
- c) It defines an inline function.
- d) It prevents inheritance.

Solution of Above MCQ

Which of the following is not a fundamental data type in C++?

- d) string
- 3. Which of the following correctly describes the purpose of the **#include** directive?
- a) It includes the content of a specified file into the program.
- 4. What is the purpose of a constructor in a class?
- a) To initialize objects of the class.
- 5. Which of the following statements is true about destructors in C++?
- c) Destructors are called automatically when an object goes out of scope.
- 6. Which of the following is the correct syntax to declare a pointer to an integer?
- a) int ptr;*
- 7. What is the output of the expression **Sizeof(char)** in C++?
- a) 1
- 8. Which of the following is the correct way to declare a constant variable in C++?
- c) Both a and b
- 9. What is the default access specifier for members of a class in C++?
- b) private
- 10. Which of the following is a correct way to allocate memory dynamically for an array of 10 integers?
- a) int arr = new int[10];*

What will be the output of the following code snippet?

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Copy code

int x = 10;

int y = x++;

cout << y;

11. **b) 10**

Which of the following is not a feature of object-oriented programming in C++?

• d) Recursion

In C++, which of the following operators cannot be overloaded?

12. **b)**?

Which keyword is used to handle exceptions in C++?

a) try

Which of the following containers is part of the C++ Standard Template Library (STL)?

d) set

What is the purpose of the **virtual** keyword in C++?

a) To define a virtual function.

Which of the following is a valid way to declare an inline function?

14. a) inline int func() { return 0; }

Which of the following is not a type of inheritance in C++?

d) Redundant inheritance

What does the **this** pointer point to in a class member function?

15. c) The current object

Which of the following statements about namespaces in C++ is true?

a) Namespaces provide a way to avoid name conflicts.

What does the keyword **friend** indicate in C++?

16. a) It grants a function access to the private members of a class.



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