

## 7. Polymorphism

### C++

1. The polymorphism means \_\_\_\_\_.  
a) Single form b) Many shapes c) two forms d) Many programs
2. Polymorphism is achieved through \_\_\_\_\_.  
a) Heritance b) Encapsulation c) Over loading d) Poly programming
3. The ability of a function to process the message or data in more than one form is called as \_\_\_\_\_. a) Function overloading b) Function type c) Recursive function d) Inline function
4. Each overloaded function must differ \_\_\_\_\_. a) By the member of arguments b) By type of arguments c) Either by number of arguments or by data types of arguments. d) None of these
5. The mechanism of giving special meaning to an operator is called \_\_\_\_\_.  
a) Operator overloading b) Function overloading c) inheritance d) Object
6. While invoking functions if the C++ compiler does not find the exact match of the function call statement then \_\_\_\_\_. a) it will ignore the function call b) generates an error c) Deletes the function d) looks for the next nearest match
7. During integral promotion, a char data type can be converted to \_\_\_\_  
a) integer b) Float c) Double d) All the above
8. The return type of overloaded functions \_\_\_\_\_.  
a) Must be same b) Must be different c) May or may not be same d) None of these
9. The functionality of operator like '+' can be extended using \_\_\_\_\_.  
a) Operator precedence b) Operator overloading c) operator definition d) none
10. which of the following operators cannot be overloaded? a) + b) ++ c) -- d) ::
11. Operator overloading \_\_\_\_\_. a) does not overrule definition of the operator b) Overrides original definition c) Changes original definition d) none
12. The operator function must be \_\_\_\_\_. a) Member function b) a friend function c) Either member or friend function d) None of these
13. When overloaded operators, the overloaded operator must have \_\_\_\_\_.  
a) All the operands of user defined type b) At least one operand of user defined type c) All the operands of C++ Data type d) None of the given
14. A function have more than one distinct meaning is called \_\_\_\_\_ function.  
a) Polymorphism b) Overloaded c) Prototype d) Parameter
15. \_\_\_\_\_ promotions are purely compiler oriented.  
a) Character b) Floating point c) integral d) Constant
16. The \_\_\_\_\_ operator must have at least one operand of user defined type.  
a) Existing b) Binary c) New d) Overloaded
17. Binary operators overloaded through a member function take one \_\_\_\_\_ arguments

- a) Implicit b) Explicit c) Complete d) Default
18. The \_\_\_\_ function definitions are permitted for used defined data type.  
a) friend b) Size of c) Overloaded d) Basic
19. In function overloaded do not use the \_\_ function name for two unrelated function.  
a) Same b) Different c) Similar d) Complement
20. When overloading operators, only \_\_\_\_ operators can be overloaded new operators cannot be created. a) Binary b) Relevant c) Existing d) Similar
21. Which of the following is not a valid function prototype?  
a) void fun(int x); b) void fun(int x,int y); c) int fun(int x) d) void fun(char x) void fun(int y); void fun(int x,float y) void fun(float x) void fun(char x,int y)
22. The mechanism of giving special meaning to an operator is called as \_\_ overloading  
a) data b) Function c) variable c) Operator

Read the program and answer the following questions

```
# include <iostream.h>
# include <conio.h>
class negative
{
int i;
public :
void accept()
{
cout << "\nEnter a number ...";
cin >> i;
}
void display()
{
cout << "\nNumber ..." << i;
}
void operator-()
{
i = -i;
}
};
void main()
{
clrscr();
negative n1,n2;
n2.accept();
-n2;
```

```
n2.display();  
getch();  
}
```

23. The prototype of the overloaded member function is \_\_\_\_ a) negative operator-() b) void operator minus c) void operator –() d) Void operator – (negative)
24. Which of the following statements invokes the overloaded member function?  
a) Negative n1() b) --n2 c) n2+ d) –n2.
25. Identify the operator that is overloaded. a) = b) – (unary) c) – (Binary) d) negative.

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