

9. Inheritance

C++

1. The process of creating new data types from existing data type is called.....
a) Inheritance b) Polymorphism c) Overloading d) Encapsulation
2. The class created from an existing base class is called
a) Second class b) New class c) Rich class d) Derived class
3. In Inheritance, the newly created classes are
a) Base class b) Derived class c) Super class d) function
4. In real life, children acquire the futures of their parents in addition to their own unique features. Which of the following terms refers this?
a) Encapsulation b) polymorphism c) overloading d) inheritance
5. Reusability of code, code sharing, consistency of interface are all advantages of.....
a) inheritance b) polymorphism c) overloading d) Encapsulation
6. Which of the following is true?
a) Base class inheritance properties from derived class
b) Derived class class inheritance properties from base class
c) Derived class does not inherit any properties from base class
d) both a and b are true
7. Which of the following derives a new class “sub_class” from the base class “main_class”?
a) class main_class: public sub_class b) class sub_class; public main_class
c) class main_class: class sub_class d) class sub_class: public main_class
8. What is wrong with the following statement that derives a B_class from A_class?
Class B_class; public A_class
a) Semicolon (;) must be replaced by colon (;)
b) Semicolon (;) must be appear at end of the statement
c) The word public must be replaced by private
d) The word public must be replaced by protected
9. Class xclass: public yclass from the above statement which of the following is true?
a) xclass is the base class b) yclass is the base class
c) yclass is derived from xclass d) yclass is the derived class
10. Private, public and protected are all
a) C++ variables b) Control structures of C++

- c) Access Specifiers d) Derived class members
11. The default visibility mode while inheriting members of a base class is.....
a) private b) protected c) public d) extended public
12. Which of the following is true with respect to inheritance?
a) Private members of base class are inherited to derived class with private accessibility
b) Private members of base class are not inherited to derived class with private accessibility
c) Public members of base class are inherited but not visible to derived class
d) none of the given
13. In inheritance, protected members of base class are inherited as..... when private access specifier is used
a) private members b) protected members c) public members d) not inherited at all
14. When a class is derived by private access specifier, the public members of base class are inherited as of derived class
a) private members b) protected members c) public members d) none
15. When a class is derived by protected access specifier, the public and protected members of base class are inherited as of derived class
a) private members b) public members c) protected members d) none
16. When a class derived by access specifier protected, the public members of base class are inherited as of derived class
a) private members b) protected members c) public members d) none
17. When a class derived by access specifier public, the protected members of base class are inherited as of derived class
a) private members b) protected members c) public members d) none
18. When a class is inherited by public visibility mode the public members of base class are derived as Derived class
a) private members b) protected members c) public members d) none
19. Single, multiple, multilevel, hybrid and hierarchical are all types of.....
a) Polymorphism b) Inheritance c) Encapsulation d) overloading
20. When a sub class inherits only from one base class it is known as.....

- a) single inheritance b) double inheritance c) hierarchical inheritance d) none
21. The symbol that must be used between derived and base class is.....
a) & b) : c) :: d) #
22. A derived class that inherits from multiple base class is known as.....
a) single inheritance b) multiple inheritance
c) multilevel inheritance d) hybrid inheritance
23. Classes used for only deriving other classes are called.....
a) public classes b) abstract class c) derived class d) objects
24. The class from which the other classes are derived is called....
a) objects b) object class c) sub-class d) function
25. Which is not inherited from base class?
a) object b) function c) constructor d) data member

Read the following program and answer the following answer

```
class vehicle
{
int wheels;
public:
void inputdata( int, int);
void outputdata();
protected :
int passenger;
};
class heavy_vehicle : protected vehicle
{
int diesel_petrol;
protected:
int load;
```

26. Which is the base class of the class heavy_vehicle?
a) bus b) heavy_vehicle c) vehicle d) both a and c
27. The data member that can be accessed from the function display data () is
a) passenger b) load c) marks d) all of these
28. The data member that can be accessed by an object of bus class is.....
a) input data b) read data
output data write data

c) fetchdata d) all of these
display data

29. Name the derived class of the class heavy_vehicle_____

30. Name the data members that can be accessed from the function displaydata() _____

31. Is the member function output data accessible to the objects of heavy_vehicle class _____.

Public:

```
void readdata( int, int);
```

```
void writedata();
```

```
};
```

```
class bus: private
```

```
_heavy_vehicle
```

```
{
```

```
};
```

```
char marks[20];
```

```
public:
```

```
void fetchdata( char );
```

```
void displaydata();
```

Read the following program and answer the following answer

```
#include<iostream.h>
```

```
#include<conio.h>
```

```
Class inherit
```

```
{
```

```
Private:
```

```
Int x,y;
```

```
Public:
```

```
Inherit()
```

```
{
```

```
x =1;y=2;
```

```
{
```

```
Void print( )
```

```
{
```

```
Cout<<"y="<<y<<endl;
```

```
}
```

```
};
```

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தமிழ்நாடு பி.எட் கணினி அறிவியல் வேலையில்லா பட்டதாரி ஆசிரியர்கள் சங்கம்.

32. What are the private data members of class inherit?
33. What are the public members of class inherit?
34. What are the members inherited by the class inherit1?

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