Reg.No. : ☐ ☐ ☐ ☐ ☐ ☐

Time : 00:45:00 Hrs

Total Marks : 35

I.Answer all the questions

10 x 1 = 10

II.Use blue pen only.

1) Which is the most powerful feature of an OOP?

   (a) Inheritance   (b) Class   (c) Encapsulation   (d) Polymorphism

2) Which of the following is true with respect to inheritance?

   (a) Private members of base class are not inherited to the derived class with private accessibility

   (b) Private members of base class are inherited to the derived class with private accessibility

   (c) Public members of base class are inherited but not visible to the derived class   (d) None of the given

3) Which of the following is a process of creating new classes?

   (a) Encapsulation   (b) Functions   (c) Inheritance   (d) Polymorphism

4) Single, mulitple, multilevel, hybrid and hierarchical are all types of

   (a) Inheritance   (b) Polymorphism   (c) Overloading   (d) Encapsulation

5) Inheritance is a process of creating new classes called

   (a) Base classes   (b) Derived classes   (c) Super class   (d) Function

6) Class x class: public y from the above statement which of the following is true?

   (a) y class is the base class   (b) x class is the base class   (c) y class is derived from xclass   (d) y class is the derived class

7) Which of the following inherits all the properties of the base class?

   (a) Derived class   (b) New class   (c) Old class   (d) Base class

8) Which is a power packed class?

   (a) Multiple inheritance   (b) Base class   (c) Derived class   (d) Abstract class

9) Which of the following is true with respect to inheritance of class

   (a) The destructors are not executed   (b) The destructors are executed in the order of inherited class   (c) The destructors are excuted in the reverse order of inherited class

   (d) None of the given is true

10) Which of the following is a class from which other classes are derived?

   (a) Sub class   (b) Derived class   (c) Base class   (d) Methods

Part-A

5 x 2 = 10

11) List the different types of inheritance

12) Write a short notes on inheritance.

13) What are the advantages of inheritance?

14) Write the syntax for creating a derived class from base class.

15) What are three access specifiers while inheriting a derived class?

Part-B

3 x 5 = 15

16) Explain different types of inheritance?

17) Explain the Scope and accessibility of the base members in the derived.

18) consider the objects declared in a given program. complete the following table based on this program:

```
class add
{
   private:
   int sum;
   protected:
   int num1, num2;
public:
add( );
accept( );
plus( );
};
class subtract : private add
{
   int sub;
public:
subtract( );
minus( );
};
```

****