STD: XI (A-D)   Revision II   Marks: 70

Date: 08/02/2020   Computer Science   Time:3 Hrs

I. Choose the best answer: 15X1=15

1. Which of the following is called as compile time operator?

 a) sizeof   b) pointer   c) virtual   d) this

2. Which of the following is not a data type modifier?

 a) signed   b) int   c) long   d) short

3. Which of the following is the exit control loop?

 a) do-while   b) for   c) while   d) if-else

4. Which functions begins the program execution

 a) isalpha()   b) isdigit()   c) islower() d) main()

5. Which is the return data type of the function box(long,long);?

 a)int   b)float   c)char   d)long

6. int age[]={6,90,20,18,2}; how many elements are there in this array?

 a)2   b)3   c)4   d)5

7.When accessing structure the identifier to the left of the dot operator is the name of the

 a)structure variable   b)structure tag   c)structure member

 d)structure function

8.Which of the following create a temporary instance?

a)implicit call to the constructor   b)explicit call to the constructor

c)implicit call to the destructor   d)explicit call to the destructor

9. The variables declared inside the class are known as data members and the functions are known as

a)data functions   b)inline functions c)member functions d)attributes

10. Which of the following statement invoke operator overloading?

 a)pt1+pt2   b)Point pt1(3,2),pt2(5,4);   c)pt2.show()   d)return 0;

11. Which of the following is an invalid prototype for function overloading?

a)void fun(int x) ;void fun(char ch);   b)void fun(int x); void fun(int y);

c)void fun(double d); void fun(char ch);

d)void fun(double d); void fun(int y);

12. Inheritance is a process of creating new class from

a)base   b)abstract   c)derived   d)function

13. Which visibility mode should be used when you want the features of the base class to be available to the derived class but not to the class that derived from the derived class?

a)Private   b)public   c)protected   d)all of these

14. Legal recognition of transaction are carried out by

 a)Electronic data interchange   b)Electronic data exchange

 c)Electronic data transfer   d)electronic commercialisation

15. The process of converting cipher text to plain text is called

  a)encryption b)decryption   c)key   d)proxy server

II.Answer the following in short (any six)

(Q.no 16 is compulsory)   6x2=12

16.What is the significance of null (\0) character inn string?

17. Write a for loop that displays the number 21 to 30

18. What is parameter and lists its types?

19. Differentiate array and structure

20. Write down the importance of destructor

21. What is function overloading?

22. What is a base class?

23. What are Warez?

III.Answer in brief   (Any 6)   6x3=18

(Q.No 25 is compulsory)

24. Write the syntax and purpose of switch statement

25. What are the information the prototype provides the compiler?

   Example: long fact(int,double)

26. What is called nested structure?

27. Write with example how will you dynamically initialize an object?

28. Discuss the benefits of constructor overloading

29. What is the difference between members present in private visbility mode and members present in public visibility mode?

30. What do you mean by overriding?

IV.Explain in Detail   5x5=25

31. a) Explain call by value method with suitable example (OR)

    b) What is entry control loop?Explain any one entry loop in detail

    32.a)Write a C++ program to find the difference between two matrix   (OR)

    b) Explain nested class with example

33. a)Write the output of the following program

```cpp
#include<iostream>
using namespace std;
class seminar
{
   int Time;
   public:
   seminar()
  {
     Time=30; cout<<"Seminar starts now"<<endl;
  }
     void Lecture()
     {
             cout<<"Lectures in the seminar on"<<endl;
     }
     seminar(int duration)
     {
      Time=Duration;cout<<"Welcome to seminar"<<endl;
     }
     seminar (seminar &D)
     {
       Time=D.Time;cout<<"Recap of previous seminar content"<<endl;
     }
     ~seminar()
     {
      cout<<"Vote of thanks"<<endl;
     }
     };
int main()
{
       seminar s1,s2(2),s3(s2);
       s1.Lecture();
       return 0;
}
```

                                                          (OR)

    b) Explain the different visibility mode through pictorial representation

34. a)Explain the types of Inheritance(OR)

    b) Explain scope of variable with example

35 a)Write a program to accept any integer and reverse it (OR)

    b) Explain fundamental datatypes in C++