Roll Number		

C
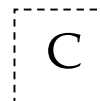
INDIAN SCHOOL MUSCAT
SECOND PERIODIC ASSESSMENT

COMPUTER SCIENCE

CLASS: XII   Sub. Code: 283   Time Allotted: 50 mts

15.05.2019   Max. Marks: 20

GENERAL INSTRUCTIONS:
- **Answer all questions.**
- **Programming language is C++.**
- **Write programs neatly and clearly.**

1. What do you mean by static member function? Write an example.   2

2. What do you mean a class and an object?   1

3. Differentiate between private, protected and public visibility modes of a class with suitable example.   2

4. Find and write the output of the following C++ program code: Note: Assume all required header files are already being included in the program.   4

    ```
    class Stock
    { long int ID;
       float Rate;
       int Date;
    public:
     void Initialize( )
    {ID=1001; Rate = 200; Date = 1; }
    void RegCode( long int I, float R)
     { ID = I; Rate = R; }

    void Change( int New, int DT )
    { Rate+= New ; Date = DT; }
    void Show( )
    { cout<< "Date:"<< Date << endl ;
       cout<<< ID << "#"<< Rate << endl ;
    } };

    void main( )
    { Stock A,B,C,D;
     A.Initialize( ) ; B.Initilalize( ) ; C.Initialize( ) ; D.Initialize( ) ;
      A.RegCode(1024,150) ;   B.RegCode(2015,300) ;   B.Change(100,29) ;
      C.Change(-20,20) ;  D.Change(30,15) ; A.Show( ) ; B.Show(  );  C.Show( ) ; D.Show( ) ;
      }
    ```

5. Define a class BUS in C++ with following description: 4
   Private Members
   A data member Busnumber of type integer
   A data member Destination of type string(25 characters)
   A data member Distance of type float
   A data member Fuel of type float
   A member function CALCFUEL() to calculate the value of Fuel as per the following
   criteria

Distance	Fuel
<=1000	500
more than 1000 and <=2000	1100
more than 2000	2200

   Public Members
   A function FEEDINFO( ) to allow user to enter values for Bus Number, Destination,
   Distance & call function CALCFUEL( ) to calculate the quantity of Fuel.
   A function SHOWINFO( ) to allow user to view the content of all the data members.

6. Write the definition of a class CUBE in C++ with following description: 4
   Private Members:
   Cno   - data member of integer type
   Side   - data member of float type
   Volume   - data member of float type
   CalcVolume( ) - Member function to calculate and assign Volume as side*side*side
   Public Members:
   GetData( )   - A function to allow user to enter values of side. Also,this function should
                    call CalcVolume( ) to calculate volume.
   ShowData( )   - A function to display Cno, Side and Volume.

7. Rewrite the following program after removing the syntactical error(s), if any. Underline each 3
   correction.
   #include[iostream.h>
   Class Admission
   { int Adno ;
     char name[25] ;
    public
    void getdata( )
   { cout<< " Enter the admission number:";
     cin>> Adno;
     cout<< "\n Enter name:" ;
     gets(name) ;
   }
    void display( )
   { cout << "Admission number :"<< Adno;
     cout<< "\nName:" <<name ;
   } } ;
   void main( )
   { Admission AD ;
     getdata( ).AD
     display( );
   }

End of the Question Paper