Roll Number	





## INDIAN SCHOOL MUSCAT SECOND PERIODIC ASSESSMENT

## **COMPUTER SCIENCE**

CLASS: XII Sub. Code: 083 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 a class and an object?
- 2. Differentiate between private, protected and public visibility modes of a class with suitable example.
- 3. What do you mean by static member function? Write an example.
- 4. Rewrite the following program after removing the syntactical error(s), if any. Underline each 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:";</pre>
  gets(name);
 void display( )
{ cout << "Admission number :"<< Adno;
 cout<< "\nName:" <<name;</pre>
} };
void main( )
{ Admission AD;
  getdata().AD
  display();
```

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```
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.Initialize(); 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();
}
```

6. Write the definition of a class RING in C++ with following description:

**Private Members:** 

Rno - data member of integer type
Radius - data member of float type
Area - data member of float type

CalcArea() - Member function to calculate and assign Area as 3.14 \* Radius\*Radius. Public Members:

GetInfo() - A function to allow user to enter values of Rno and Radius. Also, this function should call CalcArea() to calculate Area.

ShowInfo() - A function to display Rno, Radius and Area.

7. Define a class BUS in C++ with following description:

**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 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.

## End of the question paper