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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. Differentiate between private, protected and public visibility modes of a class with suitable example.
- 2. What do you mean by static member function? Write an example.
- 3. What do you mean a class and an object?
- 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.

```
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();

```
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();
}
```

6. 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

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| 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.

7. Write the definition of a class SQUARE in C++ with following description:

Private Members:

Sno - data member of integer type
Side - data member of float type
Area - data member of float type

CalcArea() - Member function to calculate and assign Area as side * side

Public Members:

GetValues() - A function to allow user to enter values of Sno and Side. Also, this

function should call CalcArea() to calculate Area

ShowArea() - A function to display Sno, Side and Area