### **DELHI PUBLIC SCHOOL**

### **BOKARO STEEL CITY**

### **ASSIGNMENT FOR THE SESSION 2014-2015**

Class: XII Subject : Computer Science Assignment No. 2

1. 5 a) Answer the questions (i) and (ii) after going through the following class: class serial { int serialcode; char title[20]; float duration; int no\_of\_episode; public: //function 1 serial() { duration = 30; no\_of\_episode = 10; serial(int d, int noe) //function 2 { duration = d; no\_of\_episode = noe; serial( &s1) // function3 { } ~serial() // function 4 { cout << "Destroying Object" << endl; } **}**; Complete definition of function Give example how function1 and function 2 get executed when object is ii. created.

b) Define a class Bank to represent the bank account of a customer with the following specification

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#### **Private Members:**

iii.

Name of type character array(string)

Write an explicit call to function

Account\_no of type long

Type\_of\_account ( S for Saving Account, C for current Account) of type char

- Balance of type float

#### **Public Members:**

A constructor to initialize data members as follows

Name NULL
 Account\_no 100001
 Type\_of\_account 'S'
 Balance 1000

A function **NewAccount()** to input the values of the data members Name, Account\_no, Type\_of\_account and Balance with following two conditions

- Minimum Balance for Current account is Rs.3000
- Minimum Balance for Saving account is Rs.1000

A function **Deposit()** to deposit money and update the Balance amount.

A function **Withdrawal()** to withdraw money. Money can be withdrawn if minimum balance is as >=1000 for Saving account and >=3000 for Current account.

A function **Display()** which displays the contents of all the data members for a account.

```
c) Answer the questions (i) to (iv) based on the following code :
class PUBLISHER
{
       char pub[12];
       double turnover;
       protected:
       void register( );
       public:
       PUBLISHER();
       void enter( );
       void display();
};
class BRANCH
       char city[20];
       protected:
       float employees;
       public:
       BRANCH();
       void haveit( );
       void giveit( );
};
class AUTHOR: public BRANCH, private PUBLISHER
       int acode;
       char aname[20];
       float amount;
       public:
       AUTHOR();
       void start();
       void show();
};
```

- i) Write the names of data members, which are accessible from objects belonging to class AUTHOR.
- ii) Write the names of all the member functions which are accessible from objects belonging to class BRANCH.
- iii) Write the names of all the members which are accessible from member functions of class AUTHOR.
- iv) How many bytes will be required by an object belonging to class AUTHOR?
- 2. Identify the errors with reasonin the following code fragmen .

```
class X {
    int x;
    static int ctr;
    public:
    X( ){x=0;}
    X( int i ) { x = i ; }
    void init ( void )
    {        c=ctr=0; }
    inline static void prn ( void )
    {
        prn( );
        cout<<ctr<<x; }
    ~X(int a ){}
}; void main( ){ X X, x1,x2; X.init( );};</pre>
```

3. Write the output of the following:

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#include<iostream.h>

```
class item{
              static int I;
       int no;
              public:
       item()
       {
       cout<< "DC"<< " ";
       }
       item (item & x)
       cout<< "CC"<<" ";
       void getdata(int aa)
       no = aa ;
       I++;
       void putdata()
       cout <<"\n"<< I<<"\n";
       ~Item()
       cout<<"Des"<<I--;
       }
       };
       int item::I;
       void main( )
       {
       item a;
       item b=a;
       item c;
       c=a;
       a.getdata(100);
       b.getdata(200);
       a.getdata(300);
       a.putdata();
       b.putdata();
       c.putdata();
3.
       Observe the following program carefully & choose the correct possible output (if any) from
       the options (i) to (iv)
       # include <iostream.h>
       # include <conio.h>
       # include <stdlib.h>
       void main ()
       char serial[] = \{'E', 'X', 'A', 'M'\};
              int number[] = \{69, 66, 67, 68\};
              clrscr();
              randomize();
              cout << number[random(3)];</pre>
```

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