HOLIDAY HOME WORK AUTMN VACCATION FROM 27- OCT

CLASS XI

1. **What is the difference between Local Variable and Global Variable? Also, give a suitable C++ code to illustrate both.**

Q2.**What is the difference between Actual Parameter and Formal Parameter? Give an example in C++ to illustrate both types of parameters**

Q4. **What is the difference between #define and const? Explain with suitable example**.

Q5 What is the purpose of using a typedef command in C++. Explain with suitable example.

Q6. How is call-by-value method of function i different from call-by-reference method? Give appropriate examples supporting your answer

.Q7. List the steps you would follow using a function. Answer your question with the help of an example.

Q8. Explain the output of the following program:

```
#include<iostr
eam.h>  int
&max(int &x,
int  &y)
{
      if(x>y)
       return(x);
      else
       return(y);
}
void main()
{
      int
      A=10
      ,B=1
      3;
      max(
      A,B)
      =-1;
      cout<<"A="<<A<<"B="<<B<
      <endl; max(B,A)=7;
      cout<<"A="<<A++<<"B="<<
      B--<<endl; max(A,B)=3;
      cout<<"A="<<A<<"B="<<B<
      <endl;
}
```

HOLIDAY HOME WORK AUTUMN VACCATION FROM 27- OCT CLASS XII

(1) Obtain the output of the following C++ program, which will appear on the screen after its execution.

```
class calc
{
char grade;
int bonus;
public:
calc()
{grade='e;
bonus=0;
)
void down(int g)
{
grade =g;
)
void up(int g)
{
grade+=g;
bonus++;
}
void show()
{
cout<grade<<'£'<<bonus<<endl;}
};
void main()
{calc c;
c.down(2);
c.show();
c.up(7);
c.show();
c.down(2);
c.show();
}
```

(2) Obtain the output of the following C++ program, which will appear on the screen after its execution. Important Note : All the desired header files are already included in the code.

```
Class Player
{
int Score, Level ;
char Game;
public :
Player (char GGame='A' )
{score=0; Level=1; Game=GGame; }
void Start (int SC) ;
void Next ( ) ;
void Disp();
{
cout<<Game< < " @" < <Leve1< <end1,'
cout<<Score<<endl ;
)
};
void main ( )
(Player P,Q ('B') ;
P.Disp( );
Q. Start (75) ;
Q.Next() ;
P. Start (120) ;
P.Disp( );
P.Disp( );
)
void Player::Next()
{Game =(Game='A') ?'B' :'A';}
)void Player: :Start (int SC)
{
Score+=SC;
if (score >= 100 )
Level=3;
else if (Score>=50 )
Level=2;
el se
Level=1;
)
```

Question-3 Define a class TravelPlan in C++ with the following descriptions :

Private Members:

PlanCode of type long

Place of type character array (string)

Number_of_travellers of type integer

Number_of_buses of type integer

Public Members:

A constructor to assign initial values of Plan Code as 1001, Place as "Agra", Number_of_travellers as 5, Number_of_buses as 1

A function NewPlan( ) which allows user to enter PlanCode, Place and Number_of_travellers. Also, assign the value of Number_of_buses as per the following conditions :

Number_of_travellers	**Number_of_buses**
Less than 20	1
Equal to or more than 20 and less than 40	2
Equal to 40 or more than 40	3

A function ShowPlan( ) to display the content of all the data members on screen.

Q4 An array S[40][30] is stored in the memory along the row with each of the element occupying 2 bytes, find out the memory location for the element S[20][10], if an element S[15][5] is stored at the memory location 5500.

Q5 Find the output of the following program:

```
#include<iostream.h>
void main()
{  int A[] = {10,15,20,25,30};
  int *p = A;
  while (*p < 30)
  {    if (*p%3 != 0)
            *p = *p+2;
       else
            *p = *p+1;
  p++;
 }
 for(int J=0; J<=4 ; J++)
 {
       cout << A[J] << "*" ;
       if (J%3 == 0) cout<<endl;
 }
  cout<<A[4]*3<<endl;
}
```