Q1 Define procedural programming technique, and then draw the types of it in a diagram. [15 marks]

Q2
a- write a forth generation program to find the minimum and maximum number from 20 numbers [9 marks]
b- Translate the program into machine language [9 marks]
c- draw the flowchart for the program [7 marks]

Q3 write a diagram for the program interpretation and execution then test the code segment bellow
Int x=2;
Cout<<”start \n”;
If(\n(x<=3)
If (x!=3)
Cout<<”hello from the second if \n”;
Else
Cout<<”hello from the else \n”;
Cout<<”start again \n”;
If(\n(x>3)
If(x! =0)
Cout<<”hello from the second if\n”; Else
Cout<<”hello from the else \n”;<<start again \n”;

[15 marks]
Q4 Answer only one question:-
a) Write a subprogram call-return structure and CEP,CIP for the following code segment
Float aver (int x1, int x2)
{
    float z;
    z=(x1+x2) / 2.0;
    return(z);
}

void main()
{
    Float x;
    int num1,num2;
    cout<<"Enter 2 positive numbers \n";
    cin>>num1>>num2;
    x=aver (num1, num2);
    cout<<x;
}

b) Draw the flowchart for the following pseudo code
Input N
Input keyword
I=0
Match=0
Do while I<=T
    I=I+1
    If word=keyword then
        Match=Match+1
        Store in buffer
    End
End
If N=0 then
    Print “no Match”
Else
    Call subroutine to print buffer information
End

Good Luck