

Question No. 3 Perform in each question as directed. [10]

- 1. There are int a and int b, you need to produce there sum without using + operator. Hint: a single c/c++ instruction (expression) required.**

Sum= -(-a-b);

- 2. If int x=2 and int y=4, provide the operation order and evaluated value for the expression (x==2+y && y>x)**

- Addition first (+) => 2 ==6 && 4 > 2
- Now > will be evaluated => 2==6 && TRUE
- Now == is executed => FALSE && TRUE
- Last && operator is used => FALSE

- 3. If int *PtrX=0; int **dPtrX=0; int x=1; int y=0; what will be the errors in the following code:**

PtrX=x; // Error: PtrX is an address but x is not an address
***PtrX=&x; // Error: *PtrX is a value pointed by PtrX and &x is an address**
dPtrX=&PtrX; // No Error

- 4. What will be the order of destructors if the following derivation is used for a class:**

class A: public class C, public class F, public class B{
Destructor B, Destructor F, Destructor C and Destructor A;

- 5. Define a function pointer for the function below:**

int& Fun(int &a, double d, int c=10)

int& (*fun_ptr)(int &, double , int);