**HOLIDAY HOME WORK FOR CLASS XI**

1.calculate the number of atoms of each type in 3.42g of sucrose(C12H22O11)

2.write down the electronic configuration of the following

a) Fe+2 b) S-2 c) Cr d) Cu+ e) Zn+2 f) Mn+2

3.Give the answer for the following

a) why NaCl is bad conductor of electricity in solid state?

b) why Be2 does not exist?

c) Using the VSEPR theory draw the shape of SF6

d) write one difference between π and σ bond?

e)Define ionic bond?

4.a) Howmany moles of H2 are present in 500 cm3 at 1 atm and 300k

b) Define Boyles and charless law

5.a) A gas expands by 0.5L against a constant pressure of 1 atm. Calculate work done in joules and calories?

b) Define entropy?