Assignment chemistry
Class -XI.
Chapter 1&2

Q-1 Differentiate between Matter waves, Sound waves and light waves.

Q-2 Why electrons can not reside in nucleus? Explain on the basis of Heisenberg uncertainty principle

Q-3 compare velocity of oxygen and Nitrogen molecule in air if both are having same kinetic energy

Q-4 if electron and proton is moving with same velocity compare the wavelength of the wave associated with them

Q-5 Why an orbital cannot accommodate more than two electrons?

Q-6 Write electronic configuration of elements having atomic no.- 11,15,25,29 &50

Q-7 Write all the Quantum numbers for 31 st electron of an atom.

Q+8 Calculate no. Of atoms in –

I)   10 L of oxygen at STP
II)   8 L of Ozone at STP
III)   5 g of Sulphur
IV)   20; g of phosphorus

Q-9 Calculate molarity, molality and mole fraction of solute in 60% of HNO3 in water . density of solution is 1.25 g/ml.

Q-10 write formula of following compounds –

I)   Aluminium phosphate
II)   Ammonium carbonate
III)   Lead acetate
IV)   Zinc nitrite
V)   Sodium sulphide
VI)   Cerium sulphite
VII)   Potassium dichromate
VIII) Lead chromate
IX)   Stannous chloride
X)   Calcium oxalate