CLASS 6 HOTS REVISION QUESTIONS

- 1.Answer the questions below with the help of the following informations :-An atom X contains 17 protons,17electrons and 18 neutrons; whereas the other element Y contains 11protons,11electrons and 12neutrons.
 a)Write the atomic number and mass number of X and Y.
 b)Write the electronic configurations of X and Y.
 c)What type of ions will be formed by X and Y?
 2. a).Name the metallic ions :i)Having variable valency and also exhibits +3 valency
 - ii)Do not have variable valency and exhibit +3 valencyb) name the non-metallic ion which has +1 valency other than hydrogen
- 3.Two beakers are taken:
 - a)one beaker A has Copper (II)sulphate solution and iron nails in it.
 - b)Another beaker B has zinc sulphate solution and iron nails in it.--- If both the beakers are kept undisturbed for few hours, what change will you see in them? Explain your answer.
- 4.'Calorific value of diesel is 45000 KJ/KG'--- What is meant by this statement ?
- 5. Give reason for the following 'The blue colour of copper(II)sulphate solution remains blue during electrolysis of this solution using copper electrodes.
- 6. To electrorefine an impure copper metal block, suggest the particular anode and the cathode to be taken and desribe in short the observation.
- 7.a)Discuss the merits and demerits of plastics.b)Name the fire proof plastic.
- 8. What will be the name, molecular formula, structural formula and electron diagram of an alkane having 3 carbon atoms.
- 9.Write the criteria for acid rain and two ways to control it.
- 10.'Increased level of nutrients affect the survival of aquatic animals'--Give a reason behind this statement and also mention the name of the resulting effect.