TEST PAPER: CHEMISTRY

Time: 50 Minutes **Class: ICSE 8th**

Max. Marks: 30 Marks **Date: 23rd July, 2018**

Marking Scheme: *Questions carry 10 marks each. Questions have 3 subparts each. Subparts (a) and (b) carry 3 marks each and subpart (c) carries 4 marks.*

Question 1:

A. Give reason:
"Freezing of water is a reversible change while burning of candle an irreversible change"

B. Define the following terms:
i. Sublimation
ii. vaporization
iii. radicals

C. State the postulates of kinetic theory of matter.

Question 2:

A. Give reasons why the particles of matter possess energy called kinetic energy.

B. Classify following changes into physical and chemical changes:
i. Respiration in living organism
ii. Meting of solid into liquid
iii. Rusting of iron
iv. Sublimation of camphor

C. State the valencies of following metallic elements (Eg. Chlorine is -1):

Sodium	Potassium	Magnesium	Aluminium
Calcium	Zinc	Copper	Iron

Question 3:

A. Write the chemical formula of following compounds:
a. Potassium hydroxide
b. calcium phosphate
c. Aluminium chloride

B. Balance the following chemical equations:
a. $P + O_2 \rightarrow P_2O_5$
b. $H_2S + Cl_2 \rightarrow S + HCl$
c. $NO + O_2 \rightarrow NO_2$

C. Give the names of following compounds:
a. $KMnO_4$ b. Al_2S_3 c. Mg_3N_2 d.$NaNO_3$

Question 4:

A. State 3 differences between mass and weight.

B. State the law of conservation of mass. Explain briefly using a reaction and observations.

C. State 4 differences between melting and solidification.

Question 5:

A. Give reason why particles of matter move more rapidly on application of heat.

B. Differentiate between solid, liquid and gases on the basis of following characteristics:
a. Interparticle particle space b. Energy possessed by the particles

C. Answer the following in one word:
a. Anything that occupies space and has mass.
b. An atom or group of atom that has resultant charge.
c. A state of matter that has high density and cannot be compressed.
d. A state of matter that has no definite volume and highly compressible