



# TEST PAPER: CHEMISTRY

Time: 50 Minutes

Class: ICSE 9th

Max. Marks: 30 Marks

Date: 18<sup>th</sup> July, 2018

**Marking Scheme:** Three 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. Write the formulae of the following salts.

- (a) Zinc carbonate                      (b) Lead hydroxide                      (c) Sodium nitrate

**Use Zinc (II) and Lead (III)**

B. Write the names of the following compounds.

- (i)  $Al_2(SO_4)_3$     (ii)  $(NH_4)_2S$                       (iii)  $KClO_3$

C. Write the formulae and balance the following equations.

- (a) Zinc + dil. Sulphuric acid  $\rightarrow$  Zinc sulphate + Hydrogen.  
(b) Ammonium sulphate + Calcium hydroxide  $\rightarrow$  Calcium sulphate + Ammonia  
+ Water.

## Question 2:

A. Write the formulae of the following alkalies /bases.

- (i) Ammonium hydroxide    (ii) Sodium hydroxide  
(iii) Potassium hydroxide    (iv) Calcium hydroxide  
(v) Magnesium hydroxide    (vi) Iron (III) hydroxide.

B. Balance the following equations :

- (1)  $Hg(NO_3)_2 \xrightarrow{\text{heat}} Hg + NO_2 + O_2$   
(2)  $NaNO_3 \xrightarrow{\text{heat}} NaNO_2 + O_2$   
(3)  $Ca + H_2O \longrightarrow Ca(OH)_2 + H_2$

C. What do the following symbols denote?

- (i)  $2H$     (ii)  $H_2$     (iii)  $H^+$

## Question 3:

A.  $MCl$  is the formula of a chloride of metal M. What is the formulae of its sulphate and hydroxide.

B.  $XCl_2$  is the chloride of metal X. Write down the formula of sulphate and hydroxide of X.

C. Balance the following equations :

- 1)  $Mg_3N_2 + H_2O \longrightarrow Mg(OH)_2 + NH_3$   
2)  $NH_3 + O_2 \longrightarrow N_2 + H_2O$   
3)  $MgCl_2 + Na_2CO_3 \longrightarrow NaCl + MgCO_3$   
4)  $NaOH + Cl_2 \longrightarrow NaCl + NaClO + H_2O$