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Date: 05-05-16

M.Marks: 25

Time- 40 min

Chemistry test

Class 9<sup>th</sup> ICSE



- $XCl_2$  is the chloride of a metal X. State the formula of the sulphate & the hydroxide of the metal X.
- Write the formula for the following compounds :  
(a) sodium zincate      (b) copper [II] carbonate,      (c) aluminium phosphate,  
(d) calcium silicate      (e) magnesium nitride      (f) iron [III] sulphate.
- Write balanced equations for the following word equations :  
(a) Potassium nitrate  $\rightarrow$  Potassium nitrite + Oxygen  
(b) Calcium + Water  $\rightarrow$  Calcium Hydroxide + Hydrogen  
(c) Iron + Hydrochloric acid  $\rightarrow$  Iron [II] chloride + Hydrogen  
(d) Nitrogen dioxide + Water + Oxygen  $\rightarrow$  Nitric acid  
(e) Lead dioxide [ lead (IV) oxide ]  $\rightarrow$  Lead monoxide + Oxygen  
(f) Aluminium + Oxygen  $\rightarrow$  Aluminium oxide
- State which of the following formulas of compounds A to J are incorrect. If incorrect write the correct formula.  
A :  $(NH_4)_3SO_4$       B :  $NaZnO_2$       C :  $KCr_2O_7$       D :  $NaCO_3$       E :  $Ca_2(PO_4)_3$   
F :  $Mg(SO_4)_2$       G :  $KNO_3$       H :  $NaClO$       I :  $NaO$       J :  $BaCl_2$
- Fill in the blanks with the correct word from the words in brackets :
  - A symbol represents a short form of a/ an ----- [ atom / element / molecule]
  - Aurum is the Latin name for the metal ----- [ gold / lead / iron / silver]
  - Variable valency is exhibited, since electrons are lost from an element from the ----- [valence / penultimate] shell.
  - A chemical equation is a shorthand form for a ----- [physical / chemical] change.
  - All chemical equations must be balanced to comply with ----- [Avogadro's law / Law of conservation of matter / Lussac's law]