

Date Planned : __ / __ / __	Daily Tutorial Sheet-12	Expected Duration : 30 Min
Actual Date of Attempt : __ / __ / __	Level-3	Exact Duration : _____

141. Which of the following statement is incorrect regarding the complete hydrolysis of Marshall's acid ?

- (A) Caro's acid is an intermediate product
(B) Two molecules of H_2SO_4 and one molecule of H_2O_2 are the final product
(C) Hybridisation and oxidation state of central atom remain unchanged in the final product
(D) Both final products can act as oxidising as well as reducing agent

142. MATCH THE COLUMN :

Column - I (Reactants)

Column - II (Products)

- | | |
|--|---------------------------|
| (A) $\text{NaNO}_3 + \text{Na} \xrightarrow{\Delta}$ | (p) Na_2O |
| (B) $\text{KO}_2 + \text{K (excess)}$ | (q) O_2 |
| (C) $\text{Ca(NO}_3)_2 + \text{Ca (excess)}$ | (r) N_2 |
| (D) $\text{Ca(NO}_3)_2 \xrightarrow{\Delta}$ | (s) CaO |
| | (t) NO_2 |

143. The boiling point of water is exceptionally high among the hydrides of oxygen family because :

- (A) of covalent bond between H and O
(B) water is linear in structure
(C) inter-molecular hydrogen bonding
(D) water molecule has high dielectric constant

144. The lead of the lead painting becomes black due to formation of _____. H_2O_2 converts the black colour to white lead as _____

- (A) H_2S , PbSO_4 (B) PbS , PbSO_4 (C) PbSO_4 , PbS (D) PbS , H_2S

145. When changes from gaseous phase to solid phase, which one of the following statements is correct regarding H_2O_2 ?

- (A) The dihedral angle changes from 111° to 90°
(B) Bond angle changes from 101° to 94°
(C) The dihedral angle changes from 94° to 101°
(D) Bond angle changes from $94^\circ 48'$ to $101^\circ 54'$

146. Setting of plaster of paris involves :

- (A) oxidation with atmospheric oxygen
(B) combination with atmospheric CO_2
(C) dehydration
(D) hydration