Date Planned : __ / __ / __	Daily Tutorial Sheet-11	Expected Duration : 90 Min
Actual Date of Attempt : __ / __ / __	Numerical Value Type	Exact Duration :_____

126. How many different combinations of water are possible from
$_1H^1$, $_1H^2$, $_1H^3$ and $_8O^{16}$, $_8O^{17}$, $_8O^{16}$.

127. What is the sum of protons, electrons and neutrons in the heaviest isotope of hydrogen ?

128. A commercial sample of H_2O_2 is labelled as '10 volume'. What is its strength? (Round your answer to the nearest integer)

129. Mass of CaO will be required to remove the hardness of 1000 litres of water containing 1.62 g of calcium bicarbonate per litre is A. Find value of A.

130. On heating a mixture containing 1 mole each of Li_2CO_3 and K_2CO_3, x mole of CO_2 is/are formed. Find the value of x.

131. The formula of plaster of paris and gypsum are $x\,CaSO_4 \cdot H_2O$ and $CaSO_4 \cdot \frac{y}{2}H_2O$ respectively. Find the value of $x + y$.

132. In hydrolysis of potassium superoxide number of different oxidation states of oxygen in reactants and products are_____.

133. How many amongst the following carbides do not give methane on hydrolysis CaC_2, Mg_2C_3, Be_2C.

134. The maximum covalency shown by Be is :

135. What will be the atomic number of an element which belongs to period 8 and group 2.

136. How many alkali metals form oxide under normal conditions.

137. NH_3, H_2O, CH_4, HF, BH_3, BeH_2, SiH_4, H_2S, PH_3
How many of the above compounds are electron precise.

138. In water each H_2O molecule is surrounded by y neighbouring H_2O molecules randomly by hydrogen bonding. Find the value of y.

139. $Na_2CO_3 \cdot 10H_2O \xrightarrow{375K} Na_2CO_3 \cdot X\,H_2O + Y\,H_2O$. The value of $Y - X$ is :

140. How many of the following orders are correct :

(i) $LiOH > NaOH > KOH$ (Solubility in water)

(ii) $LiHCO_3 < NaHCO_3 < KHCO_3$ (Solubility in water)

(iii) $Li_2CO_3 < Na_2CO_3 < K_2CO_3$ (Solubility in water)

(iv) $LiCl > NaCl > KCl > RbCl$ (Lattice energy)