

Daily Tutorial Sheet-6

Level-2

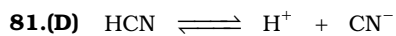
76.(C) $pK_a = -\log K_a$

77.(B) The value of the ionic product of water directly proportional to temperature

78.(B) An electrolyte dissolves in water and dissociate into ions

79.(A) NaCl, a salt is a strong electrolyte

80.(D) Degree of ionisation do not depends on current



$$\begin{array}{ccc} \text{C} & - & - \\ \text{C}(1-\alpha) & \text{C}\alpha & \text{C}\alpha \end{array}$$

$$K_a = \frac{\alpha^2 C}{1-\alpha} \approx \alpha^2 C = 10^{-9}$$

82.(D) $\alpha = \sqrt{\frac{K_a}{C}} = 10^{-2}$

83.(B) Arrhenius acid and Bronsted acid are H^+ donor

84.(B) Cl^- is the conjugate base of HCl **85.(B)** $\text{NH}_3 + \text{H}^+ \rightleftharpoons \text{NH}_4^+$