$$C_{1}(s) = C_{1}(s) + C_{1}(s) + C_{2}(s) + C_{3}(s) + C_{4}(s) + C_{4}(s)$$

$$(1) + (2) =) (n+y) = \sqrt{16x16^{-10} + 16^{-6}}$$

$$= \sqrt{16^{-6}} = 10^{-3} \text{ M}$$

from eqn. (1) =>
$$(Ag+) = \chi = \frac{Ksp_1}{(n+y)} = \frac{1.6 \times 10^{-10}}{10^{-3}}$$

= $1.6 \times 10^{-7} \text{ M}$

$$\frac{V_{\text{W.A.}(\text{HA})}}{V_{\text{S.A.}(\text{HX})}} = \frac{(\text{Ht})_{\text{HA}}}{(\text{HX})} = \frac{1}{100} (\text{given})$$

$$\frac{(H^{\dagger})_{NA}}{1} = \frac{1}{100} \Rightarrow (H^{\dagger})_{NA} = \chi = 10^{-2}$$

$$Ka = \frac{\chi^2}{(-1)^2} = \frac{(16^2)^2}{1 - 16^2} = 16^{-4}$$

$$\frac{\text{Expt.}-2}{|\Delta H| \times \frac{1 \times 100}{1000}} = \frac{\left[\text{Calorimeter} + 200 \times 1 \times 4.2\right] \times 5.6}{-...(2)}$$

$$\frac{\text{ean.}}{0} \Rightarrow \frac{1 \Delta H}{57} = \frac{5.6}{5.7} \Rightarrow |\Delta H| = 56 \text{ KeV/mol}$$

$$\Delta H_{\text{dissociation}} = 57 - 16 = \frac{1 \times 5/\text{mol}}{1000}$$

1

$$AB(s) \implies A^{+}(R_{1}) + B^{-}(R_{1}) : Fsp = 21 \times 10^{-10}$$

$$H^{+}(M_{1}) + D^{-}(R_{1}) \implies HB(R_{1}) : \frac{1}{K_{M}} = 10^{8} (Integer)$$

$$C \times X$$

$$C-X \times X$$

$$AB(s) + H^{+}(R_{2}) \implies A^{+}(R_{2}) + HB(R_{2}) : \frac{K_{3}p}{K_{M}}$$

$$(C-X) = 10^{-3} \times X$$

$$X$$

$$Ksp = \frac{\chi^{2}}{10^{-3}} \times X$$

$$X = \frac{10^{-3}}{K_{M}} \times 10^{-3} = \frac{2 \times 10^{-10}}{10^{-8}} \times 10^{-3}$$

= 4.47 x 10-3 M