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JEE Mains 2020 Jan Chapter wise Question Bank

Surface Chemistry

Q1

Flocculation value for As_2S_3 sol by HCl is 30 m mole L^{-1}. Calcualte mass of H_2SO_4 required in gram for 250 mL sol.

7th Jan Evening

Sol

00.37

For 1L sol 30 m mol of HCl is required

$\therefore$ For 1L sol 15 m mol H_2SO_4 is required

For 250 mL of sol

$$\frac{15}{4} \times 10^{-3} \text{ m mol } H_2SO_4 \equiv 0.3675 \text{ g}$$

Q2

According to Hardy Schultz rule, correct order of flocculation value for $Fe(OH)_3$ sol is :

$Fe(OH)_3$ sol के लिए हार्डी–शुल्ज नियम के अनुसार ऊर्णन मान का सही क्रम है–

(1) $K_2CrO_4 > K_3[Fe(CN)_6] > KNO_3 > KBr = AlCl_3$

(2) $K_3[Fe(CN)_6] > K_2CrO_4 > KNO_3 = KBr = AlCl_3$

(3) $K_3[Fe(CN)_6] < K_2CrO_4 < KNO_3 = KBr = AlCl_3$

(4) $KNO_3 > KBr = K_2CrO_4 > AlCl_3 = K_3[Fe(CN)_6]$

8th Jan Morning

Sol

(3)

According to hardy-schultz rule,

$$\text{Coagulation value or flocculation value} \propto \frac{1}{\text{Coagulation power}}$$

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