

CHEMISTRY

NEET 376 Medical Seats out of 435

11) Solubility of Agcl is maximum in	A) One is a conductor of electricity and other is						
A)0.1M Hcl	not						
B) 0.1M Nacl	B) One is corrosion and other is not						
C) Water	C) One contains undissociated molecules and						
D) 0.1M NH ₄ OH	other does not						
Due to the complex formation [Ag(NH ₃) ₎₂]cl	D) One reacts with Hcl and other does not						
12) Ks of a sparingly soluble salt AB is 1+10ිඉ□.	19) When more and more water is added to the						
In a solution $[A^+]$ is 10^{-4} M. AB will precipate	solution of a weak electrolyte, the value of						
when [B ⁻] is	the degree of dissociation approaches to						
$A)10^{-3}M$ $B)10^{-4}M$	A)0 B) 1						
C)10 ⁻⁵ M D)all the above.	C)100 D)∞						
13) To a solution containing equal concentration	20)In the electrolysis of the fused Nacl, the						
of cl ⁻ ,Br ⁻ ,I ⁻ . Dilute AgNo ₃ solution is added.	product obtained at the cathode is						
Which is precipitated first.	A)02 B)c12						
A) Agcl B)AgBr	C)H2 D) none of the above						
C)AgI D)all are precipitated	21) The solubility of a salt $AB_2 IS 1.0 \times 10^{-5}$ mol						
together. Solubility of AgI is the least	dm ⁻³ .the value of solubility product is						
14) Ka for a weak acid is 10 ⁻⁵ .ρk _b for its	A)4 $\times 10^{-15}$ B)10 ⁻¹⁰						
conjugate base is	C) 10^{-15} D) 4×10^{-10} K _s = $4(1.0 \times 10^{-5})^{3}$ 22)ECE of a divalent metal is 2×10^{-4} . Atomic						
A)10 ⁻⁹ B)5							
C)9 D)7	mass of the metal is						
$\rho k_a = 5, \rho k_b = 14-5 = 9$	A) 19.3 B) 38.6 C) 77.2 D) 9.65						
	C)77.2 D)9.65 Eq. mass = $2 \times 10^{-4} \times 96500$						
15) In a solution containing mixture of NH ₄ cl	AT. Mass = $(2 \times 10^{-4} \times 96500) \times 2 = 38.6$						
and NH ₄ OH, the ratio [NH ₄ cl]:[NH ₄ OH]	23) ρ H of a NaoH solution is 10. 10 dm ³ of this						
decreases by 10 times, than the pH	solution contains.						
A) Increases by 1 unit							
B) Increases by 10 unit	A)0.1g NaoH B)4g of NaoH						
C)Decreases by 1 unit	C)0.4g of NaoH D)0.04g NaoH						
D) Decreases by 10 unit	$\rho o H = 4 [OH^{-1}] = 10^{-4} Mass/10 dm^{3} = 10^{-4} \times 40 \times 10$						
16) ρH of a sodium hydroxide solution is 10. Then mass of NaoH/dm ³ is	$=4 \times 10^{-2}$						
A) 2×10^{-3} g B) 4×10^{-3} g	24)Common salt is added to a saturated solution						
$C(10^{-10}g) = D(10^{-10}g)$	of soap. Soap is precipitated. This is because of						
$\rho o H = 4 [Na o H] = 10^{-4} mass/dm^3 = 10^{-4} \times 40 =$	A) Common ion effect C)Coagulation						
$4 \times 10^{-3} g$	B)Peptisation D)None of these						
8	25)A buffer solution containing equal volumes						
17) ρ H of 0.5 N H ₂ SO ₄ is	0.02M NH₄OH and 0.2M NH₄cl has a ρH=x						
A) 0 B)0.3010 C) 1 D) 0.5	ρk _b of NH ₄ OH=5, the value of x is						
$[H^+]=0.5 \rho H=-\log 5 \times 10^{-1}=1-0.6990=0.3010$	A) 4 B) 6						
18)Difference between 0.1 N NaoH and 0.1	C) 8 D) 10						
NH4OH is	$\rho o H = 5 + \log \frac{0.2}{0.02} = 6$						
	$\therefore \rho H = 14 - 6 = 8$						

Answer

11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	25.
D	D	С	С	А	В	В	С	D	D	А	В	D	А	С