





Class : XIth Date : Subject : CHEMISTRY DPP No. : 1

Topic :- Equilibrium

1.	If the concentration of O	$30H^{-}(aq)$, is decreased by		
	$\frac{1}{4}$ times, then equilibrium concentration of Fe ³⁺ will increase by :			
	a) 16 times	b) 64 times	c) 4 times	d) 8 times
2.	$A(g) + 3B(g) \rightleftharpoons 4C(g)$	⁽).		
	Initially concentration of <i>A</i> is equal to that of <i>B</i> . The equilibrium concentrations of <i>A</i> and <i>C</i> are			
	equal. <i>K_c</i> is			
	a) 0.08	b) 0.08	c) 8	d) 80
3.	18 mL of mixture of acetic acid and <mark>sodium acetate required 6</mark> mL of 0.1 <i>M</i> NaOH for neutralization of			
	the acid and 12 mL of 0.1 <i>M</i> HCl fo <mark>r reaction with salt, separate</mark> ly. If pK _a of the acid is			
	pH of the mixture?			
	a) 5.05	b) 4.75	c) 4.5	d) 4.6
4.	50 mL of 0.1 M HCl and	d 50 <mark>mL of 0.2 M NaOH</mark> a	<mark>are mixed. The p</mark> H of the	e resulting solution is
	a) 1.30	b) 4.2	c) 12.70	d) 11.70
5.	K_c for the reaction : $[Ag(CN)_2]^- \rightleftharpoons Ag^+ + 2CN^-$, the equilibrium constant at 25°C is 4.0 × 1			
	the silver ion concentration in a solution which was originally 0.1 molar in KCN and 0.03 molar in AgN			
	is:	1) 55 10-19	1019	
~	a) 7.5 \times 10 ¹⁰	b) 7.5×10^{-10}	c) 7.5×10^{19}	d) 7.5×10^{-13}
6.	The pK_a for acid A is gre	ater than pK_a for acid B.	I ne strong acid is:	Novo of the ope
7	a) Acia A When 100 mL of 1 M Not	D) ACIO B	c) Are equally strong	d) None of these
7.	a) Acidic	b) Alkalino	$10 \text{ IIIL OI 10 M } \Pi_2 30_4$, UIE	
8	The $[H, O^+]$ in the rain w	0 Alkallie stor of pH = 4.35 is:	c) IICIO ₃	u) 11 ₃ F U ₃
0.	a) $4.5 \times 10^{-5} M$	(ater of pri = 4.55 is. b) $6.5 \times 10^{-5} M$	c) $95 \times 10^{-5} M$	d) 12 5 x 10 ⁻⁵ M
9	For which salt the nH of its solution does not change with dilution?			
5.	a) NH.Cl	b) CH_COONH	c) CH ₂ COONa	d) None of these
10.	When hydrogen molecules decomposed into it's atoms which conditions gives maxim			
	of H atom?			
	a) High temperature a	nd low pressure	b) Low temperature at	nd high pressure
	c) High temperature a	nd high pressure	d) Low temperature at	nd low pressure
	of high temperature and high pressure of how temperature and low pressure			
11.	Which is not and acid salt?			
	a) NaH ₂ PO ₂	b) NaH ₂ PO ₂	c) NaH₂PO₄	d) NaHSOa
12.	Which is a Lewis base?	27 1101121 03	-,	
	a) B_2H_c	b) LiAlH	c) AlH ₂	d) NH_2
13.	Final pressure is higher than initial pressure of a container filled with an ideal gas at constant			
	temperature. What will be the value of equilibrium constant?			
	a) $K = 1.0$	b) $K = 10.0$	c) $K > 1.0$	d) $K < 1.0$
14.	In which of the following	cases, does not reaction	go farthest to completion?	,
	a) $K = 10^3$	b) $K = 10^{-2}$	c) $K = 10$	d) <i>K</i> = 1





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