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CHEMICAL EQUILIBRIUM

1)	A monobasic weak acid solution of molarity 0.005 has P^{H} value 5. The percentage	
	ionization of acid in the solution is	[PMT2011]
	1)2 2) 0.2 3) 0.5 4) 0.25	
	Ans:2	
2)	Which of the following is least likely to behave as Lewis base?	[AIPMT2011]
	1) OH^{-} 2) H_2O 3) NH_3 4) BF_3	
	Ans;4	
3)	A buffer solution contains 0.3M ammonium hydroxide and 0.2M $\mathrm{NH_4}^+$ ion.The P^{H} of	
	solution is	
	[K _b of NH ₄ OH is 1.8×10^{-5})	[AIPMT2011]
	1)8.73 2) 9.08 3) 9.43 4) 11.72	
	Ans;3	
4)	$P^{\hbox{\scriptsize H}}$ of a buffer solution decreases by 0.02 units when 0.12g of access to the solution decreases by 0.02 units when 0.12g of access to the solution decreases by 0.02 units when 0.12g of access to the solution decreases by 0.02 units when 0.12g of access to the solution decreases by 0.02 units when 0.12g of access to the solution decreases by 0.02 units when 0.12g of access to the solution decreases by 0.02 units when 0.12g of access to the solution decreases by 0.02 units when 0.12g of access to the solution decreases by 0.02 units when 0.12g of access to the solution decreases by 0.02 units when 0.12g of access to the solution decreases by 0.02 units when 0.12g of access to the solution decreases are access to the solution decreases and 0.02 units when 0.12g of access to the solution decreases are access to the solution decrease are	etic acid is added to 250 m
	of a buffer solution of acetic acid and potassium acetate at $27^0\mathrm{C}$. The buffer capacity of th	
	solution is ?	(E-2009)
	1) 0.1 2) 10 3) 1 4) 0.4	
	Ans;4	
5)	20 ml of 0.1 M acetic acid is mixed with 50ml of potassium acetate. K_a of acetic acid =	
	1.8×10^{-5} at 27^{0} C. The concentration of potassium acetate if P	oH of the mixture is 4.8
	1) 0.1M 2) 0.04M 3) 0.4M 4) 0.02M	(E-2009)
	Ans;2	