

Chemistry Previous Questions Overview (2023)

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Definition	Discussion	Math
1. Chemistry	1. Branch of chemistry	1. P^H and P^{OH} of pure water
2. buffer solution	2. types of analysis	2. P^H of 0.001M HCL
3. buffer action	3. mathematical expression of law of mass action	3. P^H of an acidic buffer solution
4. buffer capacity	4. explain P^H and P^{OH}	4. partial equation of standardization of $KMnO_4$ by Oxalic acid.
5. law of mass action	5. composition of buffer solution	5. Degree of dissociation for a molar solution of weak electrolytes is equal to the square root of its dissociation constant
6. equilibrium constant	6. volumetric analysis	6. mathematical expression of law of mass action
7. electrolytes	7. advantage and disadvantage of volumetric analysis	7. explain P^H and P^{OH} and establish a relationship in-between
8. primary standard substance	8. types of quantitative analysis	8. The components of acetic acid and sodium acetate in a buffer solution is 0.1 M. Calculate the P^H of buffer solution, where $pK_a = 4.73$
9. action of basic buffer	9. needs of analysis	9. 22.5 mL of 0.102(N) $KMnO_4$ is required to oxidized 10 ml. Mohr's salt solution, determine the amount of Fe^{++} of that solution
10. analysis	10. % solution	10. At 25°C in a solution of 0.1N of formic acid, 2.25% of it's dissociates. Calculate it's dissociation constant.
11. chemical equilibrium	11. equivalent weight	11. How can you prepare 0.1 N Sulfuric acid and 0.5N Sodium Carbonate Solution.
12. ppm	12. normality	
13. equivalent weight	13. molality	
14. electrolytes	14. standardization	
15. Chemical bond	15. oxidation and reduction on the basis of electronic concept and charge concept	
16. K_p and K_c	16. rules for redox equation	
17. Matter	17. different concept of acid and base	
18. P^H scale	18. clarify the different concept of acid and base	
19. reversible reaction	19. solution	
20. irreversible reaction	20. buffer types and how it acts	
21. indicator	21. common ion effect	
	22. characteristics of chemical equilibrium	
	23. partial equations of standardization of $KMnO_4$ by Mohr's salt solution	
	24. names of indicator giving some information	
	25. two ionic theory of acid base indicator	
	26. Basic ways of expressing concentration	

If I missed any, feel free to knock me @SharfatKarim