

Acid-Base Chemistry

Sr	Questions	Answers Choice
1	Strong acids completely dissociate in water because.	A. High solubility B. High K_a C. Forms complex D. Low K_a
2	An acid with low K_a value is.	A. Strong B. Weak C. Base D. Neutral
3	A solution with equal $[H^+]$ and $[OH^-]$ is	A. Basic B. Acidic C. Neutral D. Salt
4	Which one is a Lewis base.	A. H^+ B. NH_3 C. HCl D. BF_3
5	Which is amphoteric	A. H_2O B. HCl C. $NaOH$ D. NH_3
6	An acid and base react to give a.....acid and base	A. Amphoteric B. Salt C. Conjugate D. Neutral
7	The conjugate base for H_2CO_3 is	A. HCO_3^- B. CO_2 C. CO_3^{2-} D. H_2CO_3
8	The conjugate acid of NH_3 is	A. NH_4^+ B. NH_2^- C. NO_3^- D. N_2H_4
9	Litmus turns which color in a basic solution.	A. Red B. Orange C. Blue D. Colorless
10	Which of the following pair form a buffer solution .	A. HCl and $NaCl$ B. CH_3COONa and CH_3COOH C. $NaOH$ and HCl D. NH_3 and Na_2SO_4
11	The strength of base is measured by its.	A. K_a B. K_b C. pK_w D. K_w
12	If K_a of acetic acid is 1.8×10^{-5} , IT IS	A. Strong acid B. Base C. Weak acid D. Neutral
13	The suppression of ionization of a weak electrolyte by adding common ion is	A. Le-Chatelier's effect B. Common ion effect C. Auf Bau effect D. Hund's rule
14	Which of the following is a weak base.	A. KOH B. $NaOH$ C. NH_3 D. $Ca(OH)_2$
15	Which dialyzing solution has highest pH	A. Vinegar B. Lemon juice C. Ammonia solution D. Coffee

16	The solubility product of PbSO_4 is	A. 1.6×10^{-8} B. 1.4×10^{-4} C. 1.6×10^{-6} D. 1.6×10^{-2}
17	Which one is a monoprotic acid	A. H_3PO_4 B. H_2SO_4 C. HCl D. H_2CO_3
18	$\text{HCl} + \text{NH}_3 \rightarrow \text{NH}_4\text{Cl}$ shows	A. Redox reaction B. Acid base reaction C. Bronsted acid base D. Precipitation
19	The pH scale ranges typically from	A. 1 - 10 B. 0 - 14 C. -1 to 1 D. 7 - 14
20	Which of the following is the conjugate base of water.	A. OH^- B. OH^+ C. H_2O D. H_2O^+