Set A: Properties of acids and bases

Objective: To test your knowledge of properties of acids, bases, and neutral solution

Write "acidic" or "basic" or "both acidic and basic" or "neutral" to indicate, if the property describes a solution that is an acid , a base , both or neutral. 1. A solution has a pH greater than 7. basic 2. A solution turns the color of litmus to blue. 3. A solution has a higher concentration of $\mathrm{H_3O}^+$ ions than OH- ions. acidic 4. A solution has a pH equal to 7. neutral 5. A solution in which phenolphthalein stays colorless. <u>acidil</u> 6. A solution changes color of indicators. 7. A solution is added to water, and the H⁺ concentration of the water increases. acidil 8. A solution changes phenolphthalein from colorless to pink. 9. A solution has a higher concentration of hydroxide ion than hydrogen ion. 10. A solution with equal number of H⁺ions to OH⁻ions. 11. A solution contains electrolytes. 12. A solution increases the OH ion concentration of another solution. 13. A solution decreases the alkalinity of another solution. 14. A solution contains hydrogen ion as the only positive ion. 15. A solution in which bromthymol will be yellow. 16. A solution undergoes neutralization reaction. 17. A solution reacts with a metal to produce hydrogen gas. ${\bf 18.}$ A solution contains mobile ions that conducts electrical current . 19. A solution that can turn litmus red. 20. A substance donates a proton in a reaction.

21. A substance accepts a hydrogen ion in a reaction.