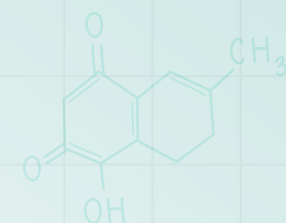


Last Moment Exam Cheat Sheet

Acids, Bases And Salts

- Indicators show different colours in **acidic and basic media**.
- Acids turn **blue litmus red**.
- Bases turn **red litmus blue**.
- Methyl orange is **red in acid** and **yellow in base**.
- Phenolphthalein is **colourless in acid** and **pink in base**.
- Acids release **H⁺ ions** in water; bases release **OH⁻ ions**.
- Acid + Metal → Salt + **Hydrogen gas**.
- Acid + Metal carbonate / hydrogen carbonate → Salt + Water + **CO₂**.
- Acid + Base → **Salt + Water**; this is neutralisation.
- Metallic oxides are **basic**; non-metallic oxides are **acidic**.
- Sulphuric acid is called the **king of chemicals**.
- **pH = -log₁₀[H⁺]**.
- pH less than 7 is **acidic**; pH 7 is neutral; pH more than 7 is basic.
- Salt of strong acid and strong base is **neutral**.
- Salt of strong acid and weak base is **acidic**.
- Salt of strong base and weak acid is **basic**.
- Sodium hydroxide is prepared by **chlor-alkali process**.
- Bleaching powder is **CaOCl₂**.
- Baking soda is **NaHCO₃**.





- Baking powder contains **NaHCO_3** and **tartaric or citric acid**.
- Washing soda is **$\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$** .
- Plaster of Paris is **$\text{CaSO}_4 \cdot 1/2\text{H}_2\text{O}$** .
- Gypsum is **$\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$** .
- POP should not be heated above **373 K or 100°C**.




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