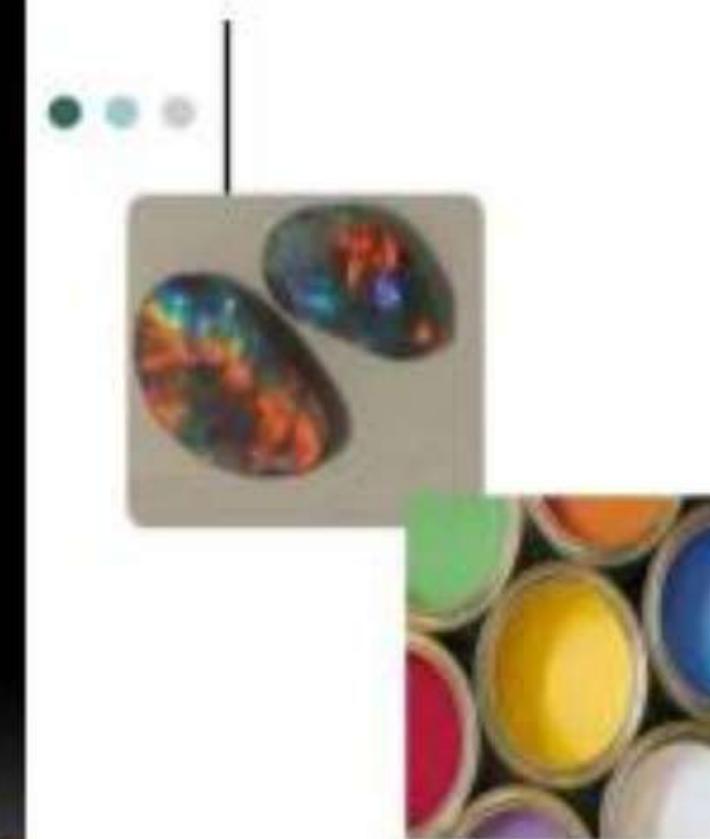


# Types of Colloids

## Emulsion/ Solid Emulsion



## Sol / Solid Sol



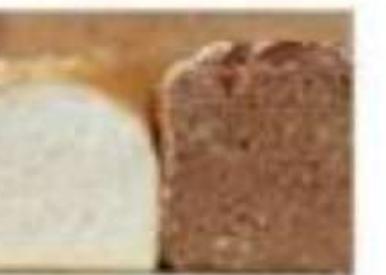
## Foam and Solid Foam

### Foams

Foams are composed of small bubbles of gas (usually air) dispersed in a liquid, e.g. egg white foam. As liquid egg white is whisked, air bubbles are incorporated.

The mechanical action causes albumen proteins to unfold and form a network, trapping the air.

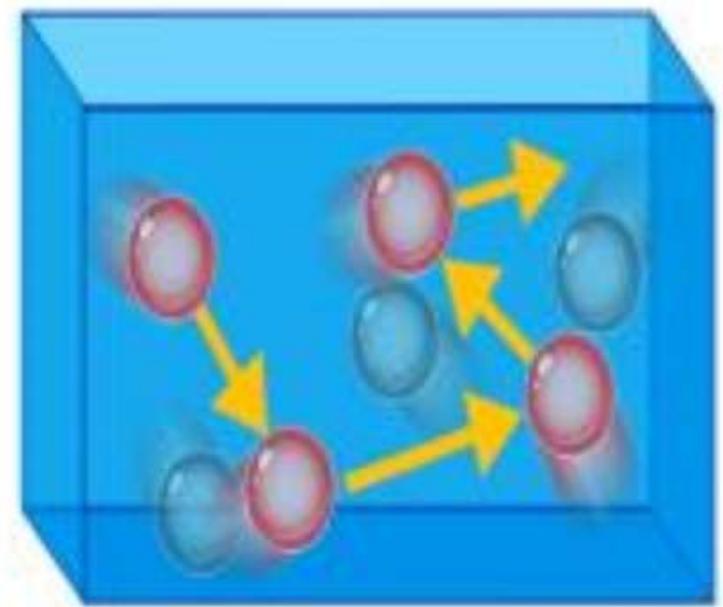
If egg white is heated, protein coagulates and moisture is driven off. This forms a solid foam, e.g. a meringue. Ice cream, bread and cake are other examples of solid foams.



# Types of Colloids

Examples	Dispersing Medium	Dispersed Substance	Colloid Type
Fog, aerosol sprays	Gas	Liquid	Aerosol
Smoke, airborne bacteria	Gas	Solid	Aerosol
Whipped cream, soap suds	Liquid	Gas	Foam
Milk, mayonnaise	Liquid	Liquid	Emulsion
Paint, clays, gelatin	Liquid	Solid	Sol
Marshmallow, Styrofoam	Solid	Gas	Solid foam
Butter, cheese	Solid	Liquid	Solid emulsion
Ruby glass	Solid	Solid	Solid sol

the random movement of particles in a colloid caused by collisions between the particles



Brownian motion

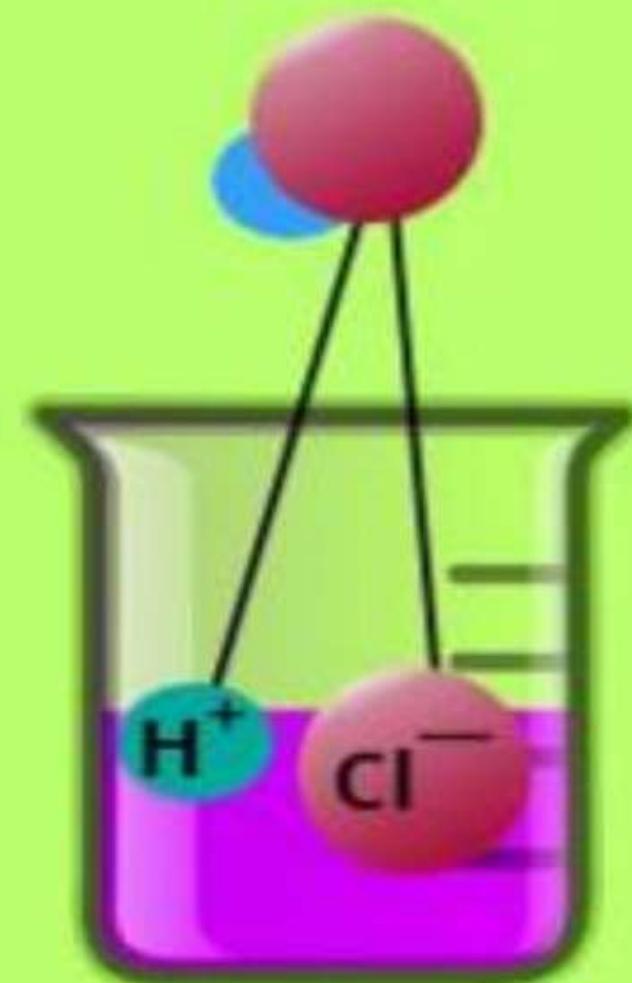
Game Smart Broadcast



## अम्ल क्षार और लवण

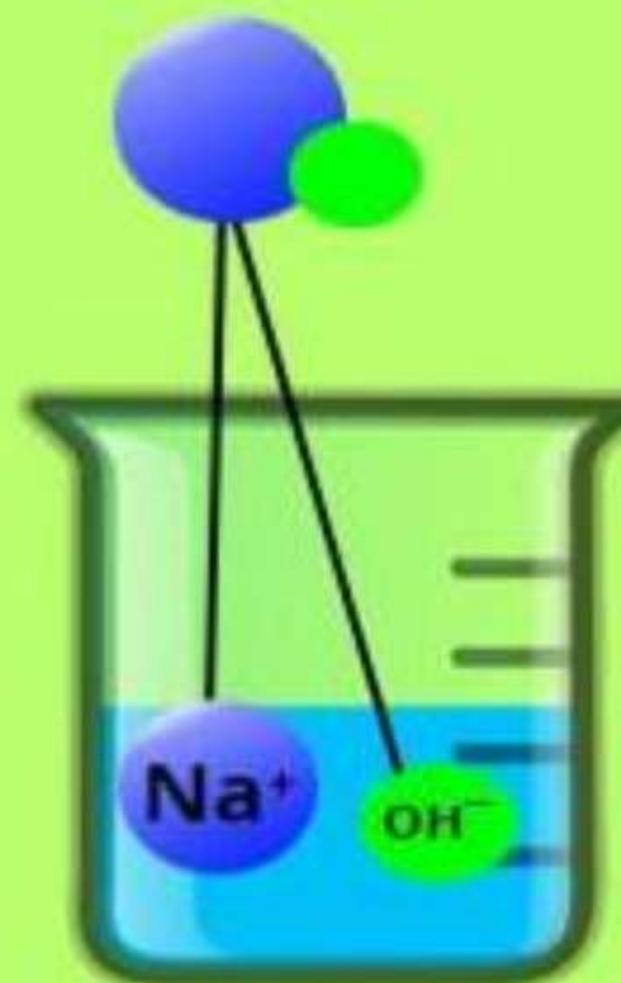


**HCl**



**(a) Acid**

**NaOH**



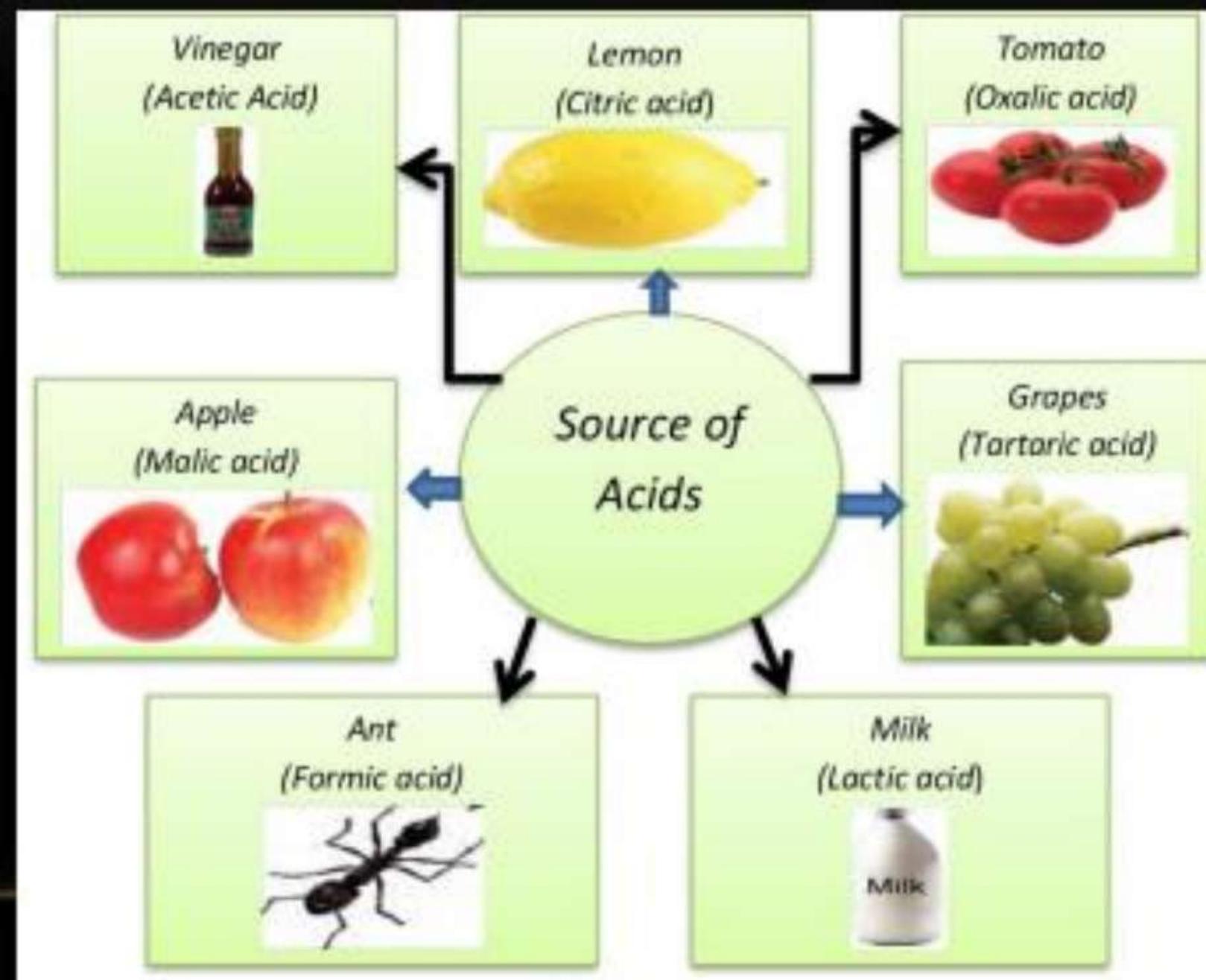
**(b) Base**

**NaCl**

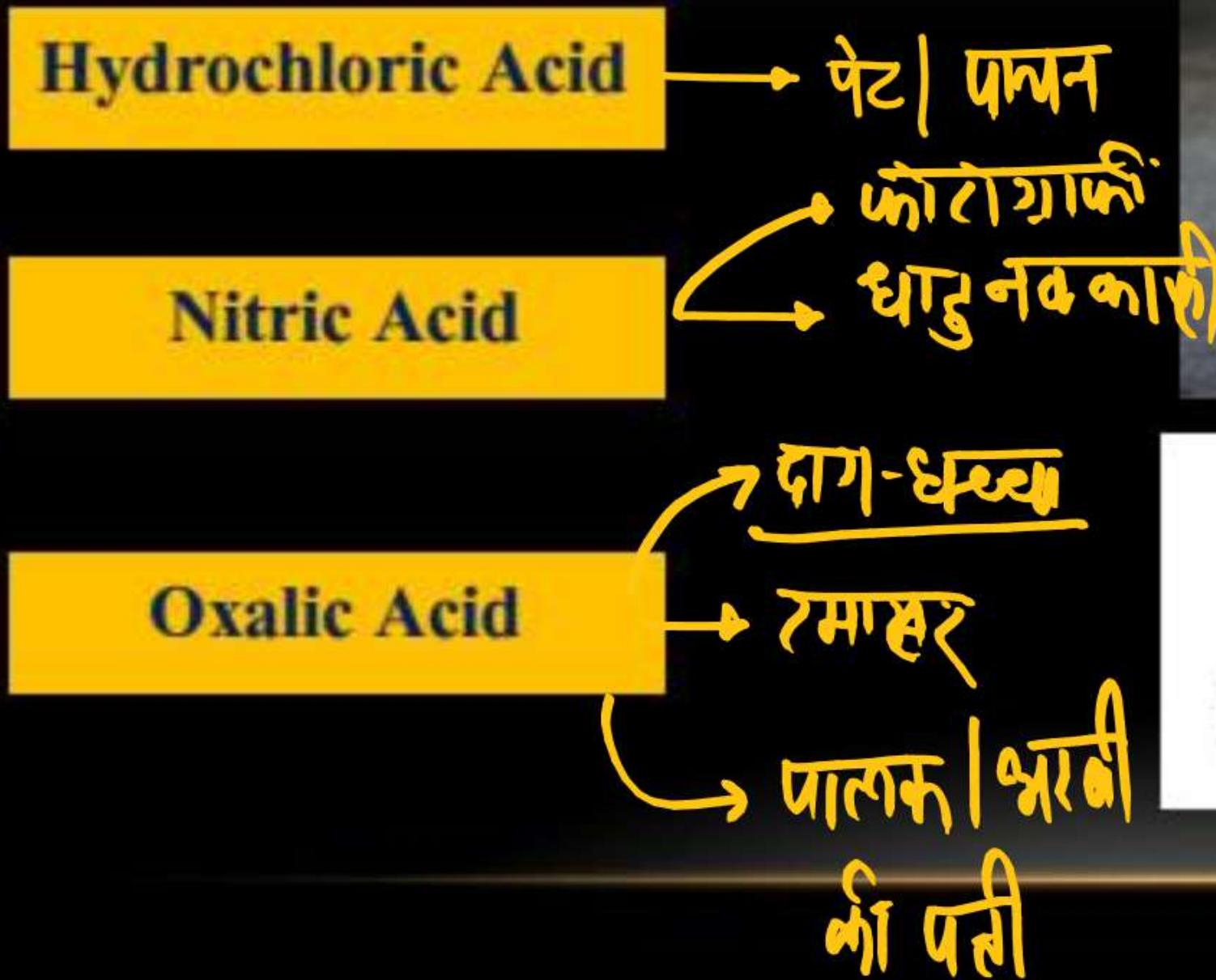


**(c) Salt**

# अम्ला और उसका परिचय

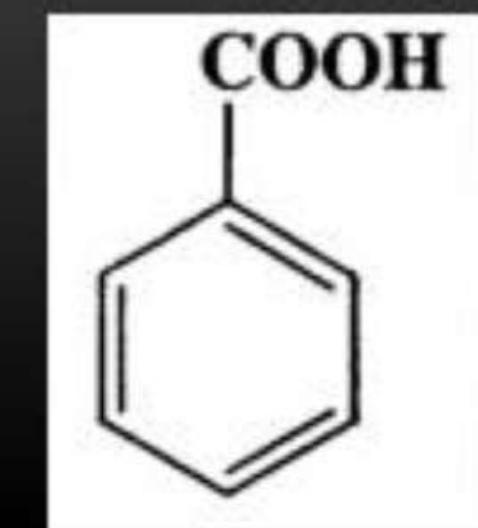


# प्रमुख अम्ल और उनके प्राकृतिक स्रोत



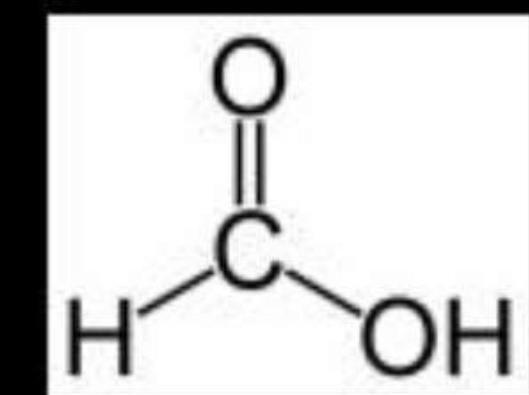
**Benzoic Acid**

Medicine.  
यादृ परिस्थ.



**Formic Acid**

र्व तिनैया इक  
चीरी  
विरभूके इक  
दीवान्हरोपी  
फस मंदसाणी



**Glutamic Acid**

दौली / High Protein  
मट्टी / मांस Rich



**Orthophosphoric Acid**

फॉय प्रूफ पर्याय बनाने

**Tannic Acid**

द्वाओं

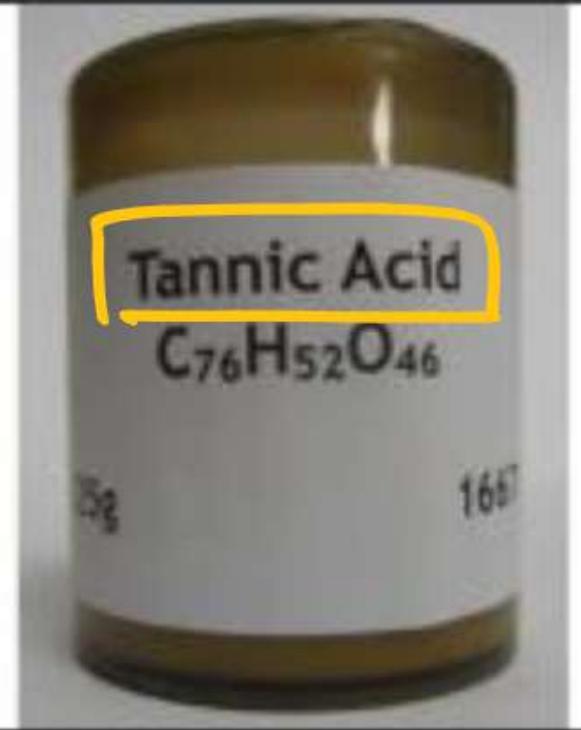
Antioxidant

skin मुरझा

**Acetic Acid**

सिरका

बाध्य मुरझा



**Citric Acid**

बटे फलो

**Tartaric Acid**

इमली

कम्बे

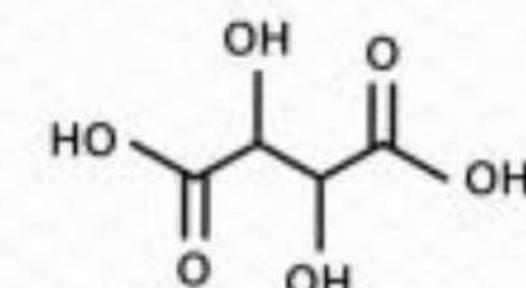
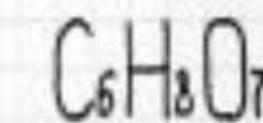
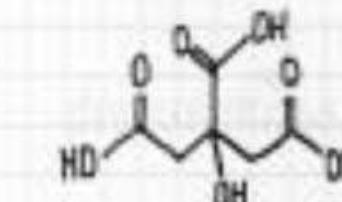
अंगू

**Maleic Acid**

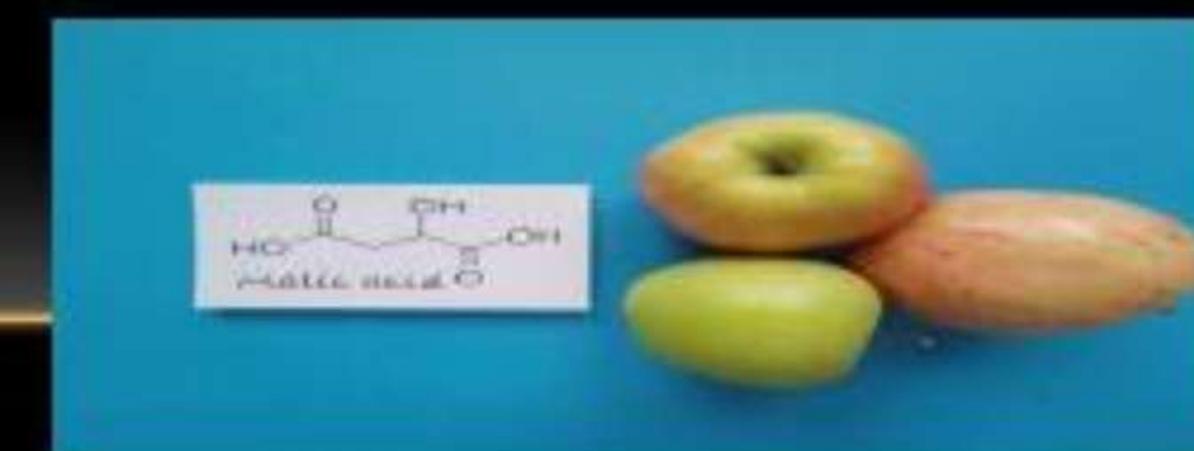
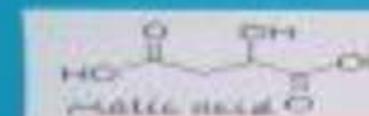
सेव

पत्तेकीपत्ती

Citric acid



Tartaric acid  
 $\text{C}_4\text{H}_6\text{O}_6$



Lactic Acid

दृष्टि

दृष्टि / तंत्रज्ञान

संस्कृतियों गमन

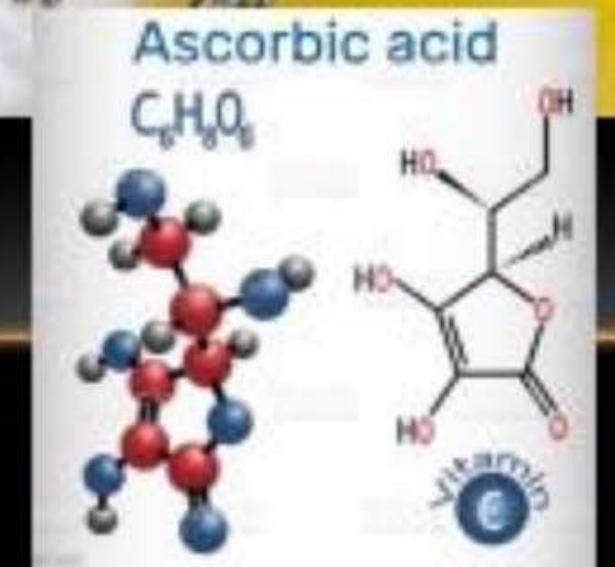
Butyric Acid

मधुमेह | मुँगाच

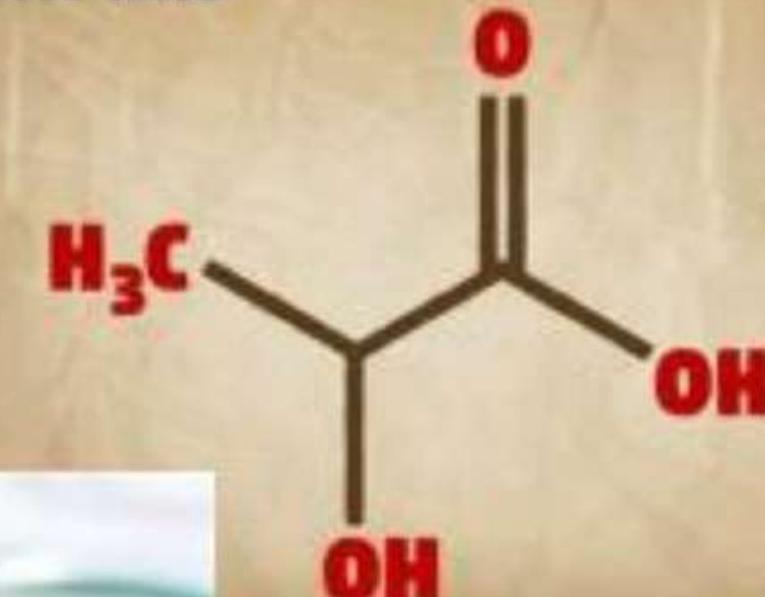
विटामिन C

Ascorbic Acid

प्रटेरीचे खांगो



LACTIC ACID

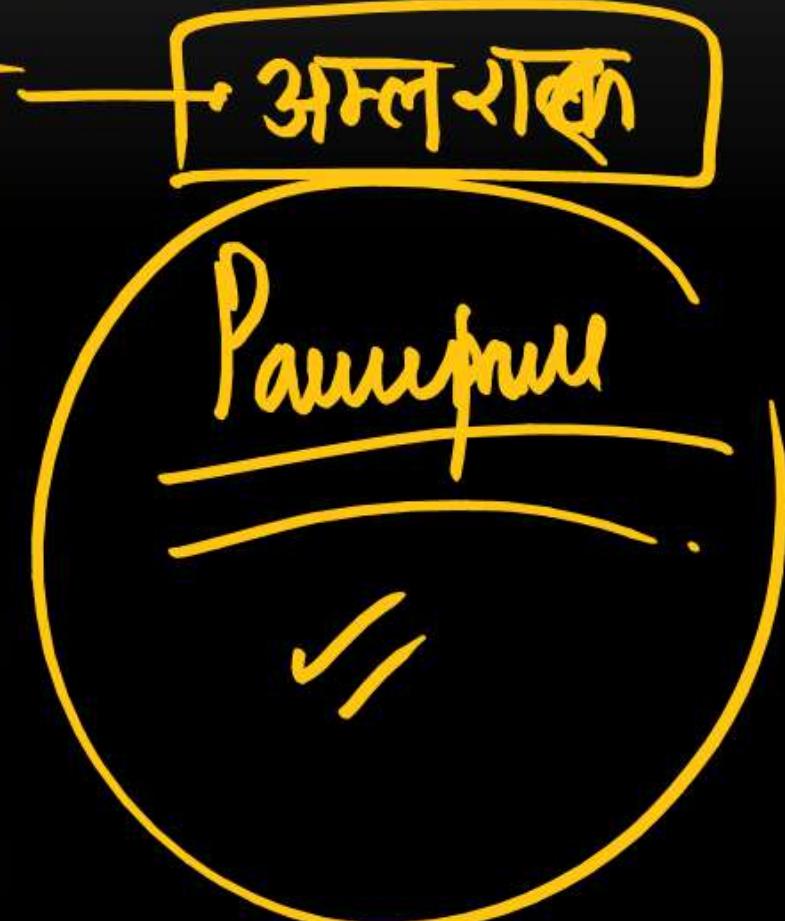
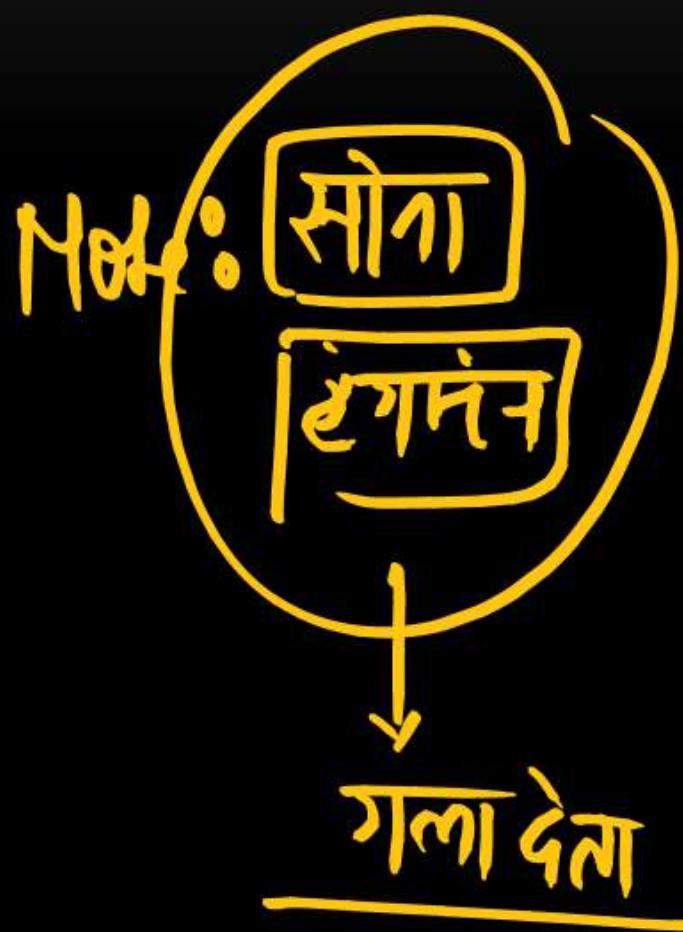


## Aqua regia



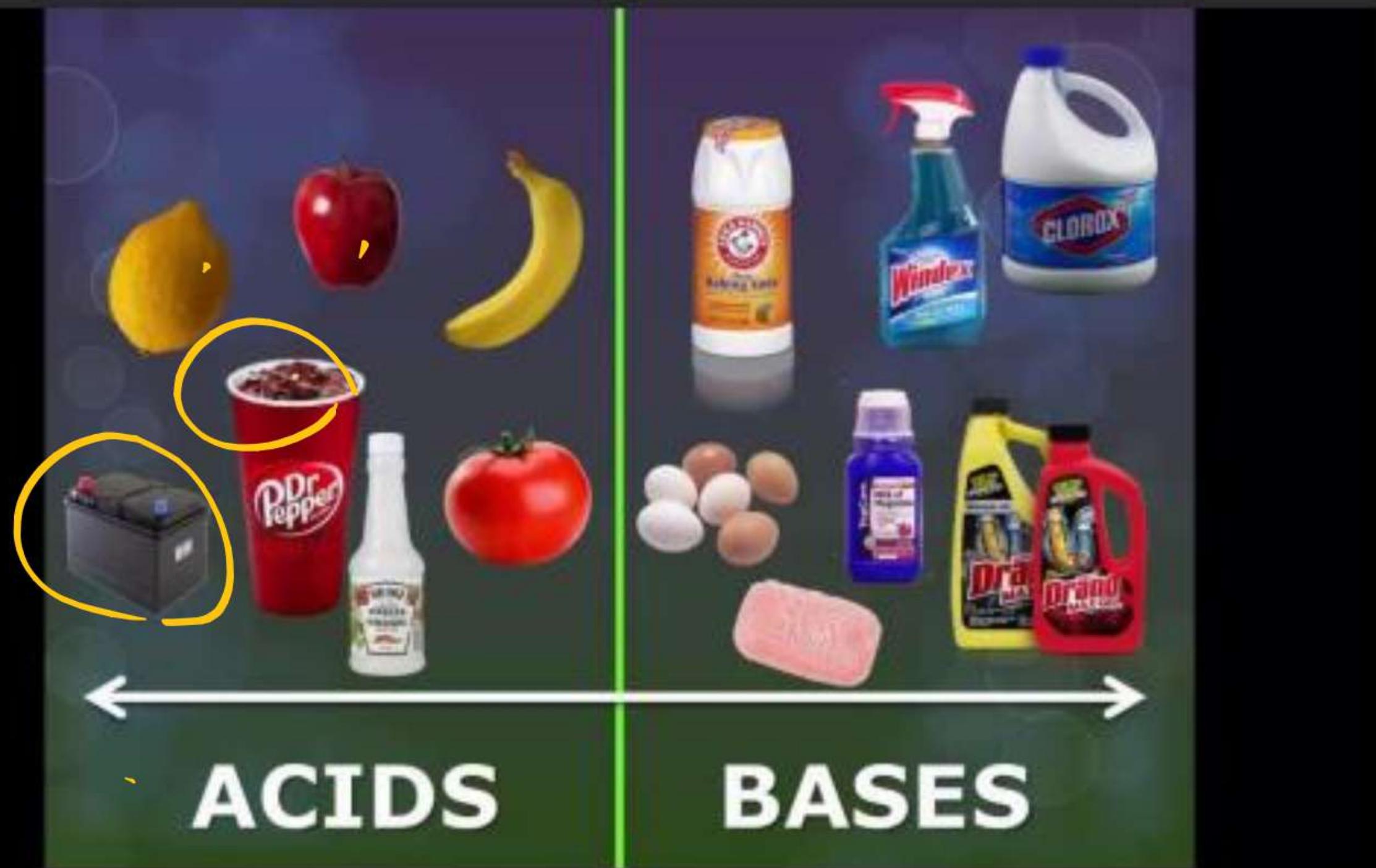
मिश्न

अम्लराक



तद्वर्तेन्यम्/इशीडियम्

Metals की गला भर पाता

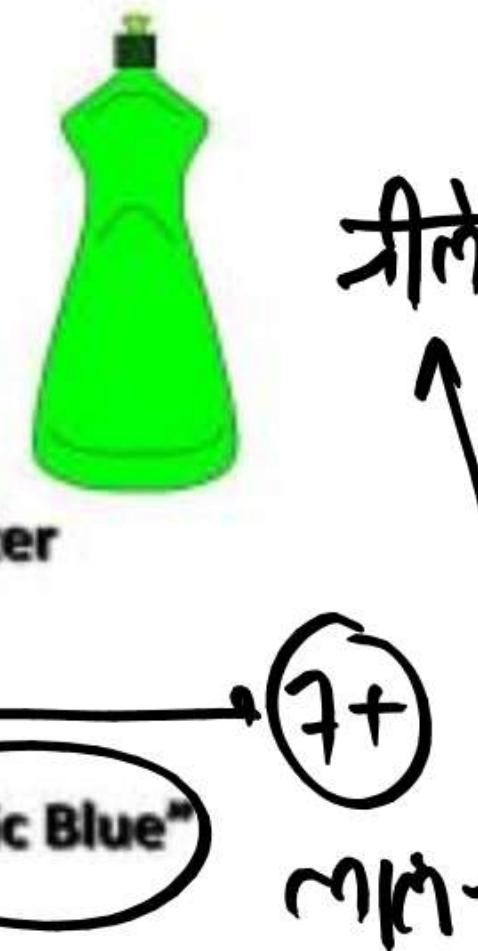


# क्षार और सामान्य परिचय



## Some Properties of Bases

- Produce  $\text{OH}^-$  ions in water
- Taste bitter, chalky कड़वा / कमैला
- Are electrolytes
- Feel soapy, slippery माधुरी की तरह
- React with acids to form salts and water
- pH greater than 7
- Turns red litmus paper to blue "Basic Blue"



# Acid Base Indicator

प्राकृतिक सूचक

हेत्या

लिटमस पेपर

गुड़हलका फूल

फूलषोफी



NaOH Ban

ग्रामिन मूल

मेधिल औरेज़

फिलाफ्फेलीन

## स्नार के प्रमुख उदाहरण

अमोनियम  
हाइड्राजाइड

↓  
प्रीमा साफ  
कॉलेज

सोडियम हाइड्रॉजाइड

नदाने का साकुन (Na)

पोर्टेशियम हाइड्राजाइड

शैम्पू (K)

बाल को पतला

कैल्शियम हाइड्राइट

पुरे का पानी व जल

मार्गीनियम हाइड्राइट

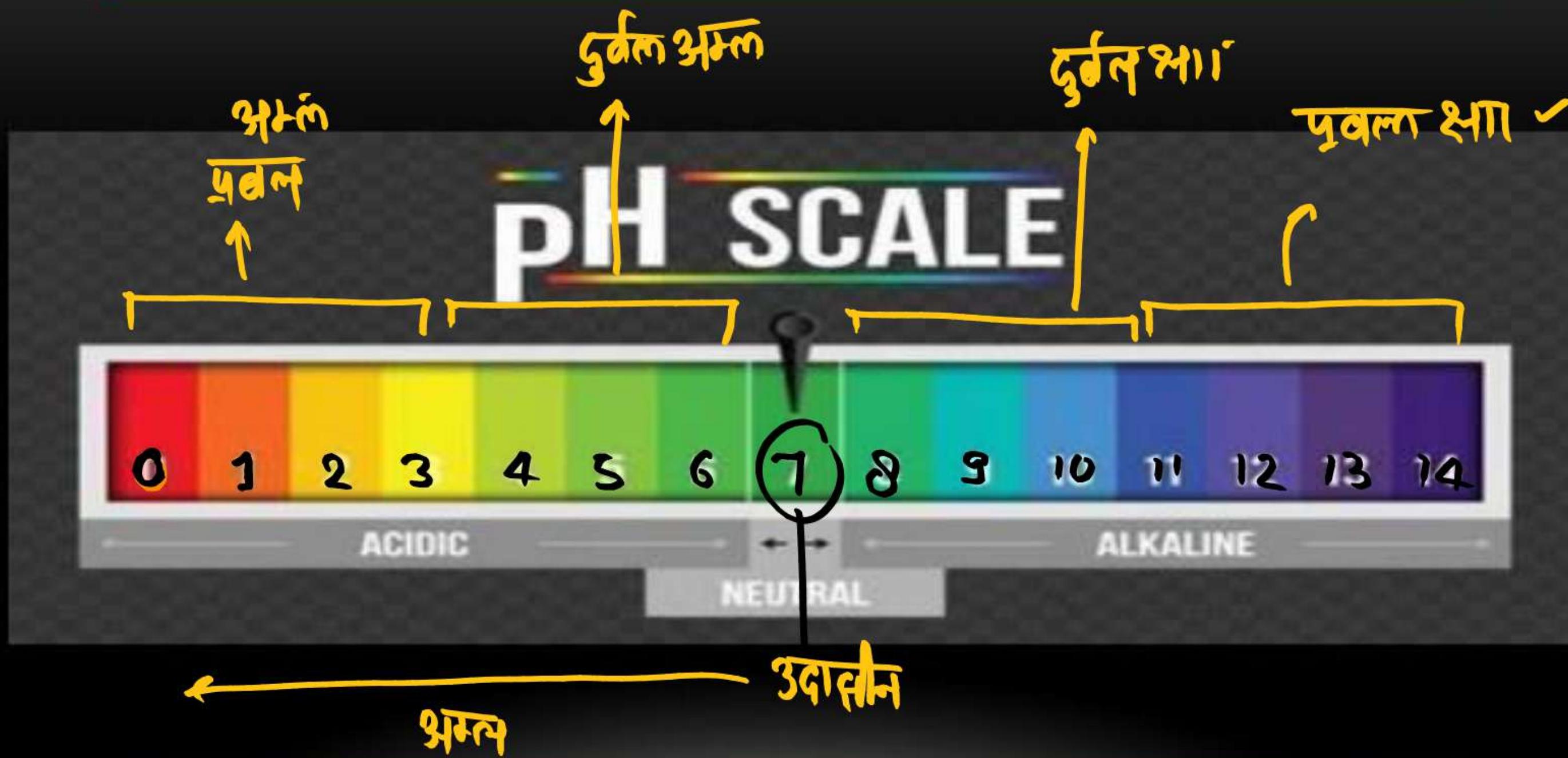
भित्ति और मार्गीनिया

संतर्सिट

पूर्ण आवृद्धि की दूरी

PH value

પોટોશિપલ આફ ઇન્ડસ્ટ્રીયુલ્ઝ



## pH मान

① हिंदू HCl → ०

② लवू HCl → १

③ अमाशुप (HCl) → २-३

④ नीत्रिका (NH<sub>3</sub>) → ११.१-३.२

⑤ लिंग्वा → ३

वाइन → ३

बीया → ५

तमाटर → ४

पांपे/कार्पो → ५-५.५

अग्नवर्ण → ५.३-५.६

भूज → ८-८

Milk  $\rightarrow$  6.5

रक्त  $\rightarrow$  7.35 - 7.45

लाई  $\rightarrow$  6.8 - 7.5

चानेसे पहले

जाम के बाद

Milk व Milk मध्ये  $\rightarrow$  10.5

अमोनिया  $\rightarrow$  12,

साधु NaOH  $\rightarrow$  14

शुद्ध लून  $\rightarrow$  7

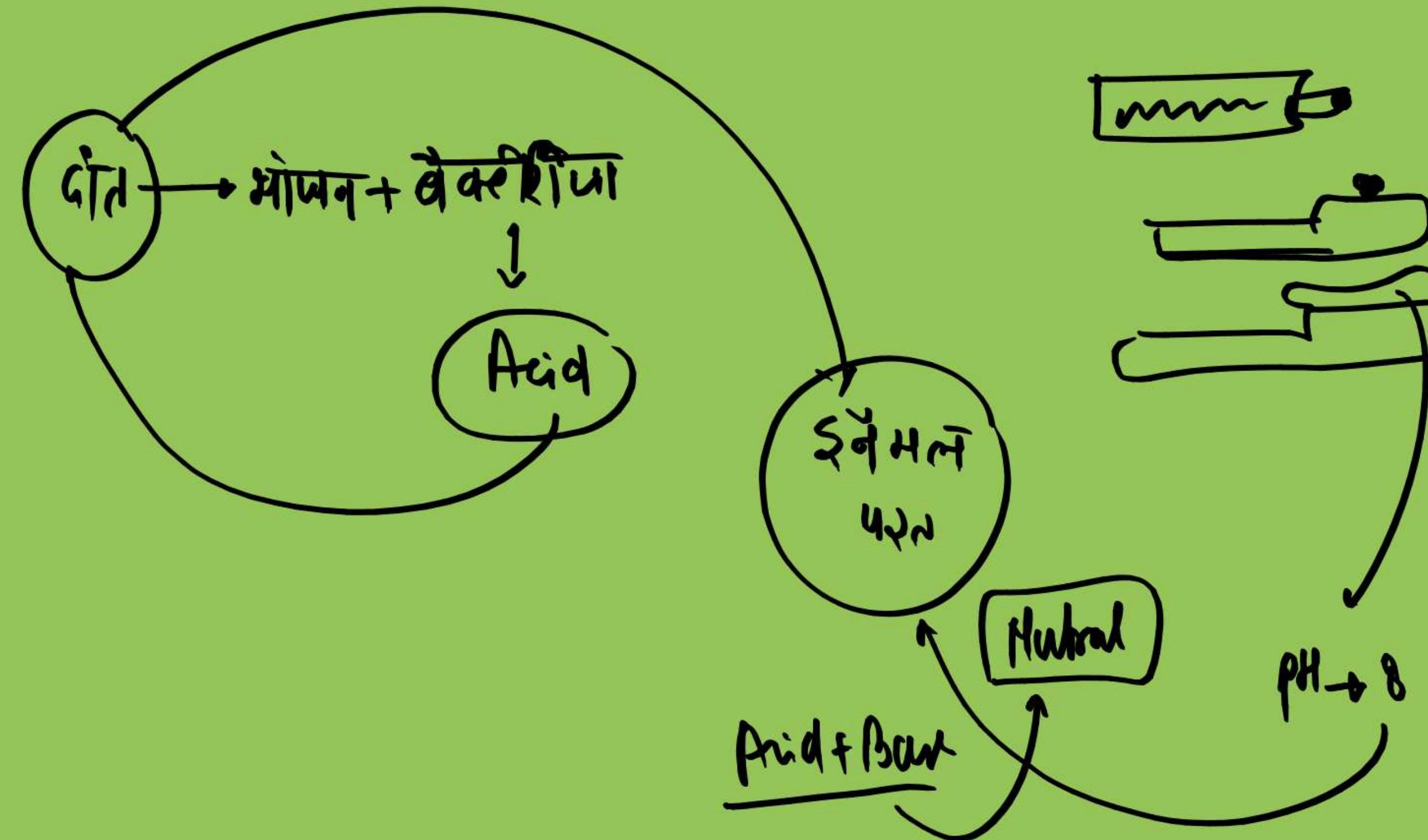
प्रसूति  $\rightarrow$  7

आंत्र  $\rightarrow$  7.4

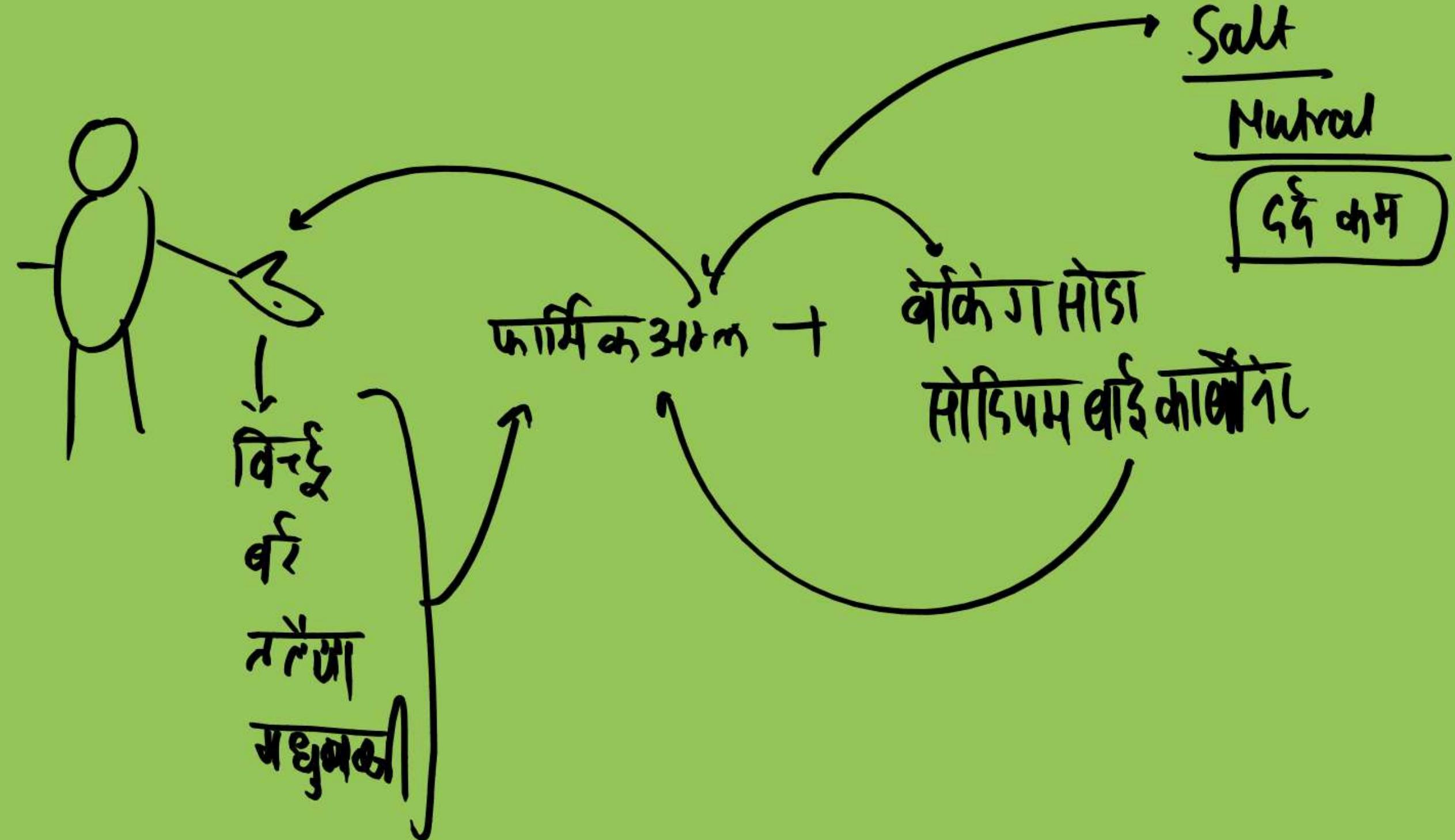
समुद्री लूल  $\rightarrow$  8.4

दृतभंपर  $\rightarrow$  8

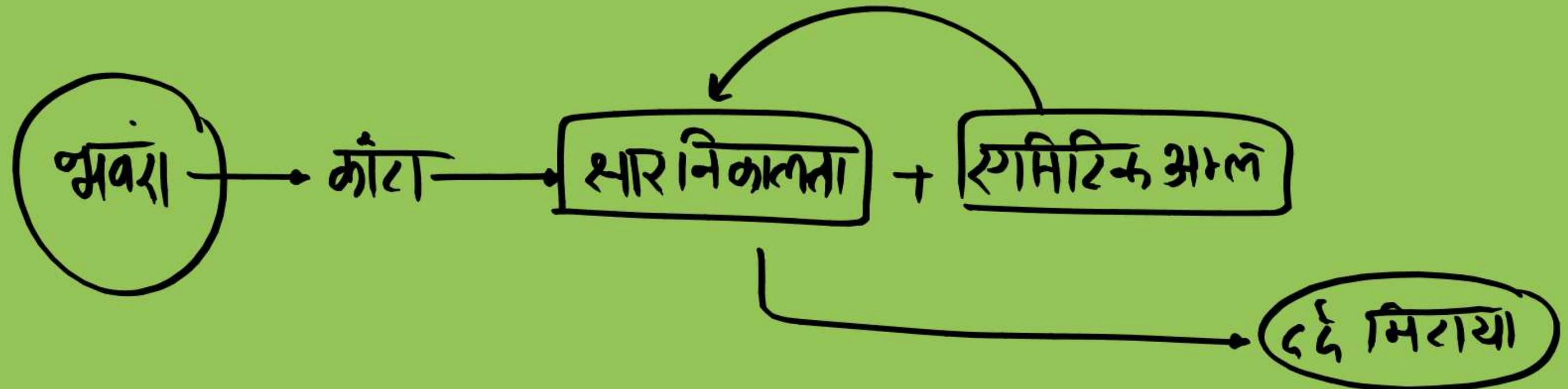
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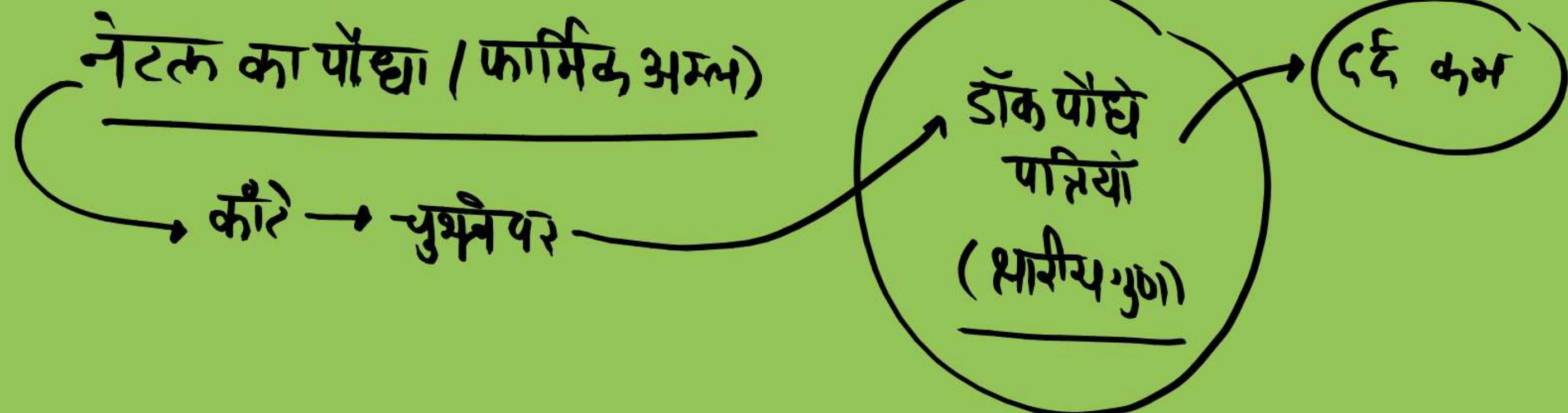
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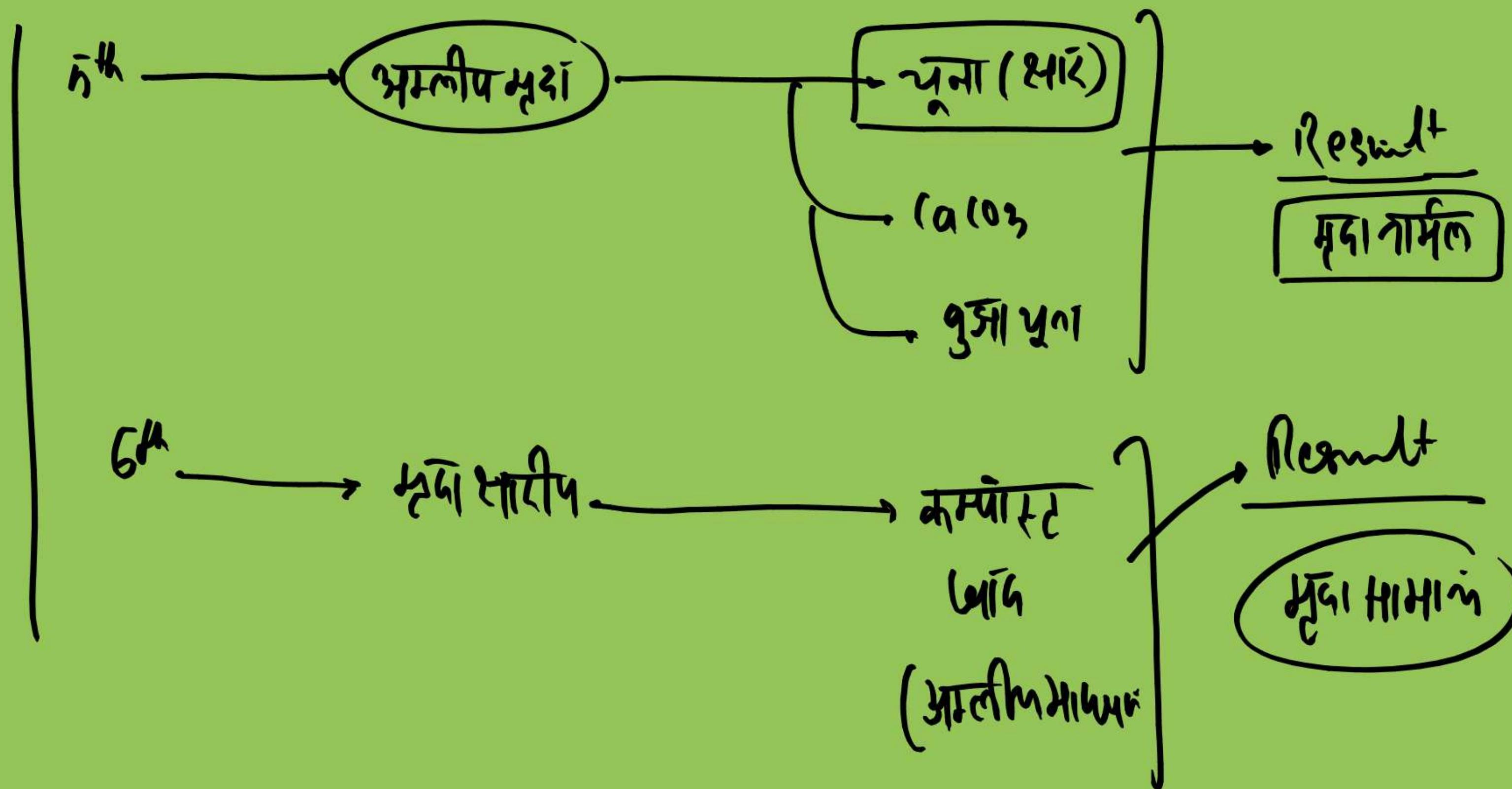


३५

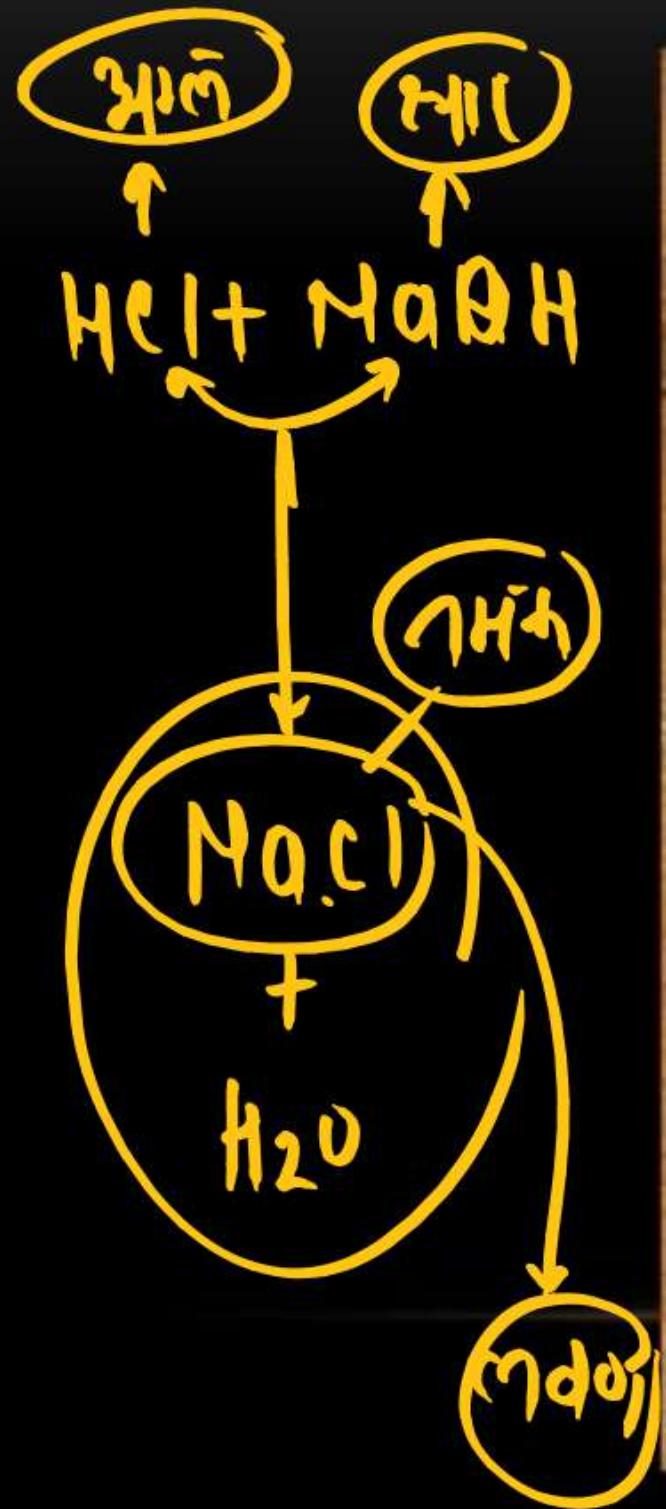


४५





# Salts



Acid	Base	Salt	Example	
Strong ✓	Strong ✓	Neutral	$\text{NaOH} + \text{HCl} \rightarrow \text{NaCl} + \text{H}_2\text{O}$	
Strong	Weak	Acidic	$\text{HCl} + \text{NH}_4\text{OH} \rightarrow \text{NH}_4\text{Cl} + \text{H}_2\text{O}$	
Weak	Strong	Basic	$\text{CH}_3\text{COOH} + \text{NaOH} \rightarrow \text{CH}_3\text{COONa} + \text{H}_2\text{O}$	
Weak	Weak	Neutral	$\text{CH}_3\text{COOH} + \text{NH}_4\text{OH} \rightarrow \text{CH}_3\text{COONH}_4 + \text{H}_2\text{O}$	=