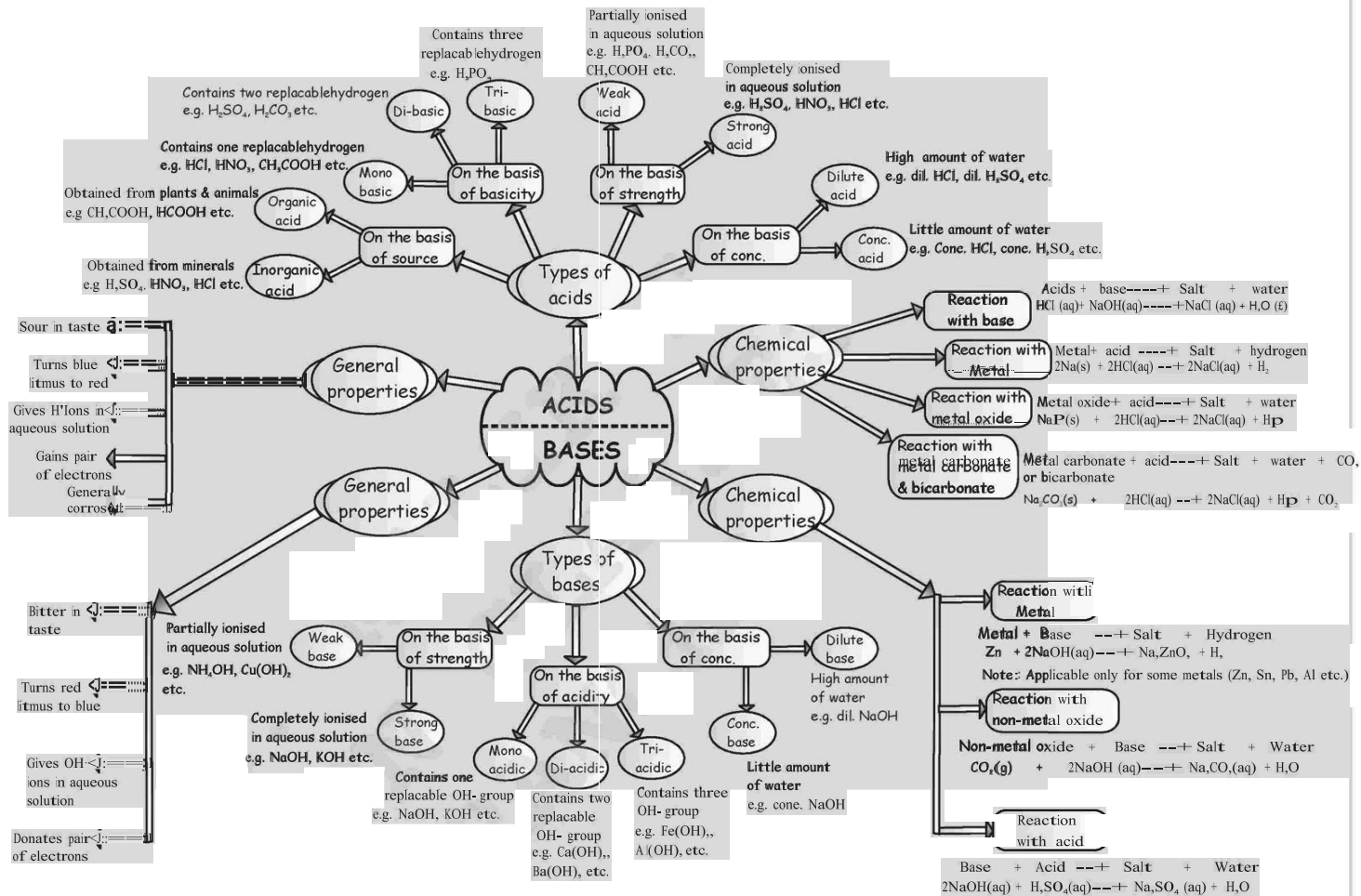




Solution	PH	Solution	PH
1. 1 M Hydrochloric acid	0	14. Urine	5.5 - 7.5
2. Battery acid	0.5	15. Saliva	6.5 - 7.5
3. Dilute hydrochloric acid	1.0	16. Blood	7.3 - 7.5
4. Gastric juices [Digestive juices in stomach]	1.0-3.0	17. Eggs	7.8
5. Lemon juice	2.2 - 2.4	18. Baking soda solution	8.4
6. Vinegar	2.4 - 3.4	19. Sea-water	8.5
7. Soft drinks	3.0	20. Washing soda solution	9.0
8. Wine	2.8 - 3.8	21. Lime-water	10.5
9. Oranges	3.6	22. Milk of magnesia [Mg (OH) ₂ solution]	10.5
10. Tomato juice	4.0 - 4.4	23. 1 M Ammonium hydroxide (Household ammonia)	11.6
11. Beer	4.0 - 5.0	24. Dilute sodium hydroxide	13
12. Coffee	4.5 - 5.5	25. 1 M Sodium hydroxide	14
13. Milk	6.5		

Class-X(Chemistry)

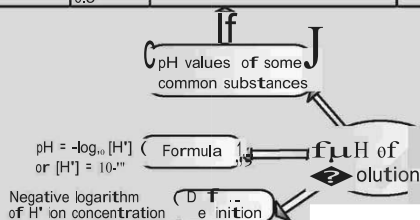
Poisoning effect of stings of
wasp (alkaline) is neutralised
by vinegar (acidic)

Poisoning effect of stings of
ant & bees (acidic) is neutralised
by soap (basic)

Application

Acidity (gastric problem) is neutralised
by antacid such as NaHCO₃, Mg(OH)₂ etc.

Effect of acidity in soil
is neutralised by Ca(OH)₂



SALTS

INDICATORS

Salts which contain
two or more acidic or
basic radicals
e.g. Ca(OCl)Cl, NaKCO₃

Obtained by crystallisation
of two simple salts from
mixture of this saturated
solution

e.g. K₂SO₄.Al₂(SO₄)₃.24H₂O

Mixed Salts

Double salts

Salt

(Basic salts)

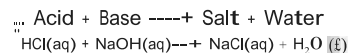
Contains replaceable OH
e.g. Pb(OH)Cl, Cu(OH)NO₃

Normal salt

Contains no replaceable
H⁺ & OH⁻
NaCl, K₂SO₄ etc.

Contains replaceable H
e.g. NaHCO₃, KHSO₄

Neutralization
Reaction



Indicators

Olfactory) Change its colour
in different medium.
e.g. Clove Oil, Vanilla
extract, Raw onion

Visual)

Indicator	Original colour	Colour in acidic medium	Colour in basic medium
Blue litmus	Blue	Red	Blue
Red litmus	Red	Red	Blue
Turmeric	Yellow	Yellow	Reddish-brown
China rose	Pink	Dark pink (magenta)	Green
Methyl orange	Orange	Red	Orange
Phenolphthalein	Colourless	Colourless	Pink
Purple Cabbage juice	Purple	Red	Green

