04. ACIDS, BASES AND SALTS

1. Classify the following as acids and bases.

HCI HNO₃

NaOH

KOH

- 2. Write any two uses of bleaching powder in your daily life.
- 3. Where can we observe water of crystallization in our daily life.
- 4. Write any two common uses of alkalis?
- 5. Write any two examples of neutralization reactions in our daily life?
- 6. Draw a rough scale that shows the range of P^H values of acids, bases, neutral substances.
- 7. Prabhakar has doubt about hydrolysis and Evaporation. Can you clarify?
- 8. Classify the following salts as acids and bases and neutrals.

Na₂CO₃

NaHCO₃

NaCl

Na₂SO₄

CH₃COONa

KNO₃

NH₄CI

 $Al_2(SO_4)_3$

- 9. Pure water doesn't conduct electricity. But rain water conduct electricity. Why?
- 10. Name some natural acidic/basic indicators?
- 11. Mastan made an experiment with acids and bases. His observations are given in the table>

/4	Substance 'A'	Substance "B'
Phenopthalene indicator	Pink colour	No change in colour

- (i) Which substance is a base? Support your answer.
- (ii) Which substance is an acid? Support your answer.
- 12. Name any two acids and bases we use in our daily life?
- 13. Vasanth Kumar licked a chocolate. He observed that it tastes sour. He thought that it is an acidic substance and it will harmful to our body. What do you say?
- 14. What is heat of neutralization?
- 15. What is neutralization? Where can we observe it in our daily life?
- 16. What is the taste of bases?
- 17. Name any two parts in our body that secretes acids?
- 18. Can we say any substance whether it is an acid or a base or a salt on seeing?
- 19. How can we identify that some salts present in water? Explain an activity.
- 20. Observe the following P^H scale ? X, Y, Z, P, R, and L are substances.

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Х				Υ			Р		Z				R	L

- (i) Which substances does not show any reaction with blue litmus paper?
- (ii) Which substances give yellow colour with Methyl orange?
- (iii) Which does not react with either methyl orange or phenopthalene?
- (iv) Identify the strong acid and weak base.

NAGA MURTHY- 9441786635

Contact at: nagamurthysir@gmail.com
Visit at: ignitephysics.weebly.com

21. Classify the following substances as per their P^H values.

Tamarind juice	Lemon ju	uice So	oap water	Distilled water
Washing soda	Baking s	oda So	oda water	Tea
	P ^H < 7	P ^H = 7	P ^H > 7	

- **22.** Identify the acids and bases from which the following salts are obtained. Write the chemical equations.
 - (i) NaNO₃

- (ii) NH₄CI
- 23. Write any two uses of Plaster of Paris?
- 24. How can an acid rain effect the aquatic life?
- 25. Identify whether the following statements are true or false. If false, correct them.
 - (i) Common name of NaHCO₃ is washing soda
 - (ii) Baking soda is used as antibiotic
 - (iii) If P^H=14, the substance is a strong base.
 - (iv) Water should not be added to acid.



NAGA MURTHY- 9441786635

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