

CLASS: VII

SUBJECT: SCIENCE

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CH-4

ACIDS, BASES AND SALTS

I SHORT ANSWER TYPE QUESTIONS:

1. What are antacids? (TB Q3)

Ans Antacids are weak bases in the form of tablets or gel that neutralise the excess acid present in the stomach and provide some relief.

2. Complete the given table. (TB Q5)

Solution	Colour change with	
	blue litmus paper	red litmus paper
Lemon juice	Red	No change
Distilled water	No change	No change
Soft drink (carbonated drink)	Red	No change
Vinegar	Red	No change
Soap solution	No change	Blue
Common salt solution	No change	No change
Baking soda solution	No change	Blue
Glucose solution	No change	No change
Curd	Red	No change
Lime water	No change	Blue

3. What are the causes of indigestion?

Ans Indigestion is caused by acidity, which in turn is caused due to the excess secretion of hydrochloric acid in the human stomach.

4. What is acid rain?

Ans Rainwater dissolves pollutants like carbon dioxide, nitrogen dioxide, and sulphur dioxide to form carbonic acid, nitric acid and sulphuric acid.

Acid rain is any form of precipitation that include acidic components, such as carbonic acid, nitric acid and sulphuric acid, that fall to the ground from the atmosphere.

II LONG ANSWER TYPE QUESTIONS:

1. What will you observe when:

a) a drop of sodium hydroxide is added to blue litmus?

b) a drop of hydrochloric acid is added to china rose indicator?

c) a drop of dilute sulphuric acid is added to red-cabbage juice?

Ans a) No change

b) It turns magenta colour

c) It's colour changes to pink

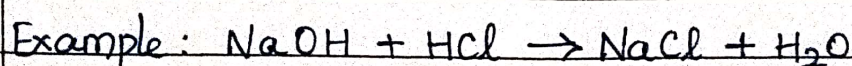
2. An acidic substance is mixed with an equivalent amount of a basic substance.

a) What is the reaction called?

b) What are the products formed? Explain with an example

Ans a) Neutralisation reaction

b) Salt and water.



Sodium hydroxide + Hydrochloric acid \rightarrow Sodium chloride + water
(base) (acid) (salt)

+ Heat

3. What is the nature of a solution of washing soda?
How will you confirm it?

Ans. The solution of washing soda is basic in nature.
To confirm it, put a drop of the solution on a red litmus paper, it will turn blue.

(II) HIGHER ORDER THINKING SKILLS:

1. Turmeric stains on white clothes are yellow. These stains turn red when such clothes are washed with soap. Give reason for it.

Ans. Turmeric is a natural indicator which turns red when it encounters base. Since soaps are basic in nature, the turmeric stain turns red.

2. The observations made during an experiment are recorded below:

Solution	A	B	C	D
Blue litmus	Reddish	Deep Red	No change	Mauve
Red litmus	No change	No change	Blue	Mauve

i) Which of these is *strongly acidic *weakly acidic
*Neutral *Basic?

ii) Which of the two solutions will react to illustrate the neutralisation reaction?

Ans i) *strongly acidic : B
*weakly acidic : A
*Neutral : D
*Basic : C

ii) B and C

X ————— X

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II LONG ANSWER TYPE QUESTIONS:

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