

## EXERCISE # 1

(A). Answer the following in not more than 20 words.

Q.1 Classify the following substances into acidic and basic substances.

Tomato juice, soap solution, toothpaste, lemon juice, vinegar

Q.2 Name three mineral acids and give their formulae.

Q.3 Define acids

Q.4 Define bases

Q.5 What are soluble bases called ? Give two examples.

Q.6 Define neutral substances.

(B). Answer the following in not more than 40 words.

Q.1 Name an acidic gas which is discharged into the atmosphere on the burning of fuels like coal and natural gas. How is this gas formed ?

Q.2 What are the general properties of basic substances ?

(C). Answer the following in not more than 100 words.

Q.1 Write the properties of an acid

Q.2 Describe an activity to show the effect of an acid on carbonates and hydrogen carbonates

Q.3 What is acid rain ? How is it formed ? Mention three bad effects of acid rain.

Q.4 Write a note on the uses of bases.

(D). Complete the following.

Q.1 The sour things we eat contain.....

Q.2 Ammonium hydroxide is an.....

Q.3 An acid is.....by a base

Q.4 An antacid generally contains.....

Q.5

Indicator	Colour	
	Acidic medium	Basic medium
Litmus	Red	.....
.....	Colour less	Red
.....juice	Yellow	Red-brown
Red-cabbage juice	.....	Green
China-rose juice	Red	.....

## EXERCISE # 2

(A). Choose the correct option.

- Q.1** Acids are formed when  
 (a) metals combine with oxygen  
 (b) oxides of nonmetals dissolve in water  
 (c) metals react with water  
 (d) bases dissolve in water

- Q.2** Hydrochloric acid can be neutralised by  
 (a) nitric acid (b) sulphuric acid  
 (c) citric acid (d) sodium hydroxide

- Q.3** A soap solution is  
 (a) acidic (b) alkaline  
 (c) neutral (d) None

- Q.4** In a neutralisation reaction, an acid reacts with a base to give  
 (a) another acid  
 (b) another base  
 (c) another acid and another base  
 (d) a salt and water

(B) Match the columns A and B

- |           |                    |                          |
|-----------|--------------------|--------------------------|
| <b>1.</b> | <b>A</b>           | <b>B</b>                 |
| (a)       | Hydrochloride acid | (i) In storage batteries |
| (b)       | Ascorbic acid      | (ii) Found in yoghurt    |
| (c)       | Sulphuric acid     | (iii) In making vinegar  |
| (d)       | Lactic acid        | (iv) As bathroom acid    |
| (e)       | Acetic acid        | (v) Vitamin C            |

- |           |                   |                                   |
|-----------|-------------------|-----------------------------------|
| <b>2.</b> | <b>A</b>          | <b>B</b>                          |
| (a)       | Sodium iodate     | (i) A food preservative           |
| (b)       | Calcium sulphate  | (ii) Used as a fertiliser         |
| (c)       | Bleaching powder  | (iii) Present in plaster of Paris |
| (d)       | Ammonium sulphate | (iv) A disinfectant               |
| (e)       | Sodium benzoate   | (v) A supplement to common salt   |

(C). Tick the correct box.

1	Yes	No
2	Yes	No
3	Yes	No
4	Yes	No
5	Yes	No

- Q.1** Are most salts neutral ?
- Q.2** Are soluble bases called alkalis ?
- Q.3** Calcium carbonate when heated gives calcium oxide, which is a base. Will the same base be formed when calcium chloride is heated ?
- Q.4** Lemon juice gives carbon dioxide with baking soda. Will it give carbon dioxide with marble too ?
- Q.5** Carbon when burnt in air gives an acidic gas. Does sulphur when burnt in air give and an acidic gas ?