

CHAPTER -4 Acids, Bases and Salts | CLASS 7TH | SCIENCE IMPORTANT QUESTIONS

Important Questions

Question 1.

What is the test for acids and bases using litmus paper?

Answer:

Acids turn blue litmus paper red while bases turn red litmus paper blue.

Question 2.

What name is given to those substances which do not change the colour of either red or blue litmus paper?

Answer:

The solutions or substances which do not change the colour of either red or blue litmus paper are neutral.

Question 3.

Write the name of two indicators which occur naturally.

Answer:

- Turmeric
- China rose

Question 4.

Name the acid present in lemon juice and tomato.

Answer:

Citric acid in lemon juice and oxalic acid in tomato.

Question 5.

Name a substance which is used to cure the discomfort caused by indigestion due to over eating.

Answer:

Milk of magnesia which contains magnesium hydroxide (base) is used to neutralise the effect of excessive acid in stomach.

Question 6.

Why does a turmeric stain on white shirt is turned to red when it is washed with soap?

[HOTS]

Answer:

Turmeric stain on white shirt is turned to red when it is washed with soap because the soap solution is basic in nature.

Question 8.

Is lime water an acidic or basic solution?

Answer:

Lime water (calcium hydroxide) is a basic solution.

Question 9.

Name the reaction when an acid is mixed with base.

Answer:

Neutralisation reaction.

Question 10.

Which acid is injected into our body by an ant sting that causes pain? [HOTS]

Answer:

The acid is formic acid which is injected into the skin of a person when an ant bites.

Question 11.

Name the salt formed when hydrochloric acid reacts with sodium hydroxide solution (a base).

Answer:

When hydrochloric acid reacts with sodium hydroxide solution, then sodium chloride salt is formed.

Question 12.

Write two basic substances which we use in our daily life.

Answer:

- Baking soda
- Soap or detergent

Question 13.

Name one acid which is responsible for acid rain.

Answer:

Carbonic acid.

Question 14.

Name two gaseous pollutants which are responsible for acid rain.

Answer:

Two gaseous pollutants are nitrogen dioxide (NO_2) and sulphur dioxide (SO_2).

Question 15.

- (a) Name one indicator which turns red on adding an acid.
- (b) Name one indicator which turns red on adding a base.

Answer:

- (a) Litmus (blue litmus paper)
- (b) Turmeric

Question 16.

Form a sentence using the following words: baking soda, ant bite, moist, effect, neutralised, rubbing [NCERT Exemplar; HOTS]

Answer:

The effect of an ant bite can be neutralised by rubbing moist baking soda.