

FORMS OF MATTER

1. In which of the following conditions, the distance between the molecules of hydrogen gas would increase?

- (i) Increasing pressure on hydrogen contained in a closed container
 - (ii) Some hydrogen gas leaking out of the container
 - (iii) Increasing the volume of the container of hydrogen gas
 - (iv) Adding more hydrogen gas to the container without increasing the volume of the container
- (a) (i) and (iii)
(b) (i) and (iv)
(c) (ii) and (iii)
(d) (ii) and (iv)

Answer: (c) (ii) and (iii)

3. A form of matter has no fixed shape but it has a fixed volume. An example of this form of matter is

- (a) Krypton
- (b) Kerosene
- (c) Carbon steel
- (d) Carbon dioxide

Answer: (b) Kerosene

5. The correct procedure of heating iron-sulphur mixture to prepare iron sulphide is: :

- (a) Heat the powder mixture at the base of the test tube using a blue flame throughout.
- (b) Heat the iron filings and sulphur mixture in the middle of the test tube using yellow flame throughout.
- (c) Heat the powder mixture at the top of the test tube using an orange flame throughout.
- (d) Heat the iron filings-sulphur mixture at 3/4 quarters of the test tube using a red flame throughout.

Answer: (a) Heat the powder mixture at the base of the test tube using a blue flame throughout.

12. Which of the following cannot be considered a form of matter?

- (a) Atom
- (b) Water
- (c) Humidity

(d) Electron

Answer: (c) Humidity

2.The products of neutralization reactions are

Salt and water

Acid and base

Base and salt

Salt and acid

ANSWER : Salt and water

Explanation :

4.The common element present in all the acids is

Hydrogen

Nitrogen

Oxygen

Carbon

ANSWER : Hydrogen

Explanation :

3.Proteins are body builders and they contain

amino acids

nucleic acids

fatty acids

organic acids

ANSWER : amino acids

Explanation :

4. Alkalis

have a sour taste

turn blue litmus into red

turn phenolphthalein pink

turn methyl orange solution pink

ANSWER : turn phenolphthalein pink

Explanation :

5. Soluble bases are called

Acids

Salts

Alkalis

All the above

ANSWER : Alkalis

2. The compounds that are responsible for the bright colours and aroma in fruits are

phenolic compounds

melanin

organic acids

indicators

ANSWER : phenolic compounds

Explanation :

2.Lichens are the source of

phenolphthalein

methyl orange

dye

litmus

ANSWER : litmus

Explanation :

3.Caustic soda is

Sodium hydroxide

Potassium hydroxide

Calcium hydroxide

Ammonium hydroxide

ANSWER : Sodium hydroxide

Explanation :

4.Cells in the human body contain acids. They are

deoxy ribonucleic acid

amino acids

both (Opt1) and (Opt2)

mineral acids

ANSWER : both (Opt1) and (Opt2)

2.The size of the atom is measured in

kilometre

millimetre

nanometre

micrometre

ANSWER : nanometre