

## CHARACTERISTICS OF MATTER

2. When a gas jar full of air is placed upside down on a gas jar full of bromine vapours, the red-brown vapours of bromine from the lower jar go upward into the jar containing air. In this experiment:

- (a) Air is heavier than bromine
- (b) Both air and bromine have the same density
- (c) Bromine is heavier than air
- (d) Bromine cannot be heavier than air because it is going upwards against gravity

Answer: (c) Bromine is heavier than air

4. Which one of the following statements is not true?

- (a) The molecules in a solid vibrate about a fixed position
- (b) The molecules in a liquid are arranged in a regular pattern
- (c) The molecules in a gas exert negligibly small forces on each other, except during collisions
- (d) The molecules of a gas occupy all the space available

Answer: (b) The molecules in a liquid are arranged in a regular pattern

15. Which of the following statement is not true regarding the characteristic of matter?

- (a) Particles of a matter are randomly moving in all directions.
- (b) Kinetic energy of the particles increases with a rise in temperature
- (c) Kinetic energy of the particles of all matters remains the same at a particular temperature.
- (d) Particles of matter diffuse into each other on their own.

Answer: (c) Kinetic energy of the particles of all matters remains the same at a particular temperature.

1. Which of the following is not an organic acid?

Oxalic acid

Hydrochloric acid

Acetic acid

Citric acid

**ANSWER : Hydrochloric acid**

**Explanation :**

**3.Which method is used to prevent rust?**

Sedimentation

Crystallization

Galvanization

None of these

**ANSWER : Galvanization**

**Explanation :**

**1.Calcium hydroxide is also called .....**

Marble

Quick lime

Lime stone

Slaked lime

**ANSWER : Slaked lime**

**Explanation :**

**2.What is the common name of Sodium bicarbonate?**

Baking soda

Caustic soda

Blue vitriol

Washing soda

**ANSWER : Baking soda**

**Explanation :**

5.Which gas is released when dilute acids react with metals .....

Oxygen

Carbon dioxide

Hydrogen

Nitrogen

**ANSWER : Hydrogen**

1.In acids, the indicator methyl orange turns to .....

Green

Yellow

Red/orange

White

**ANSWER : Red/orange**

**Explanation :**

2.The insoluble hydroxide is .....

Calcium hydroxide

Sodium hydroxide

Potassium hydroxide

Ferrous hydroxide

**ANSWER : Ferrous hydroxide**

**Explanation :**

3.Antacids contain .....

Weak base

Weak acid

Strong base

Strong acid

**ANSWER : Weak base**

**Explanation :**

4.Caustic soda is the common name for .....

Magnesium hydroxide

Potassium hydroxide

Calcium hydroxide

Sodium hydroxide

**ANSWER : Sodium hydroxide**

**Explanation :**

2.Lime water or slaked lime is a solution of .....

Calcium hydroxide in water

Calcium chloride in water

Sodium hydroxide in water

Sodium chloride in water

**ANSWER : Calcium hydroxide in water**

**Explanation :**

3. When Sodium hydroxide reacts with Hydrochloric acid, the salt obtained is .....

Sodium hypochlorite

Sodium chlorate

Sodium chloride

None of these

**ANSWER : Sodium chloride**

**Explanation :**

4. The base used in making antacids is .....

Calcium hydroxide

Magnesium hydroxide

Sodium hydroxide

Barium hydroxide

**ANSWER : Magnesium hydroxide**

**Explanation :**

5.Ascorbic acid (Vitamin C) is present in .....

Milk

Tea

Ants

Citrus fruits

**ANSWER : Citrus fruits**

1.Rusting can be prevented by .....

Chrome plating

Galvanization

Painting

all the above

**ANSWER : all the above**

**Explanation :**

1.Acids are chemical substances that contain .....ions

hydroxyl

oxide

hydrogen

salt

**ANSWER : hydrogen**

**Explanation :**

1.LPG and CNG are .....

Gas

Liquid

Solid

Compressed gases

**ANSWER : Compressed gases**

**Explanation :**

**Question 1.** Air is regarded as a mixture because:

- a)Its pressure may vary
- b)Its temperature may change
- c)Its volume changes under different conditions
- d)Its composition may vary

**Question 2 .**Which of the following is a compound?

- a)Stainless steel
- b)Bronze
- c)Graphite
- d)Hydrogen sulphide

**Question 3..**The process used to separate oil and water is:

- a)Distillation
- b)Sublimation
- c)Separating funnel
- d)chromatography

**Question 4.**In which of the following the constituents are present in any ratio?

- a)Mixture
- b)Compound
- c)Solution
- d)Colloid

**Question 5.**A mixture of common salt, sulphur, sand and iron filings is shaken with carbon disulphide and filtered through a filter paper. The filtrate is evaporated to dryness in a china dish. What will be left in the dish after evaporation?

- a) Sand
- b) Sulphur
- c) Iron filings
- d) Common salt

**Question 6.** Two substances A and B when brought together form a substance C with the evolution of heat. The properties of C are entirely different from those of A and B. the substance C is:

- a) A compound
- b) An element
- c) A mixture
- d) None of the above

- 1.(d)
- 2.(d)
- 3.(c)
- 4.(a)
- 5.(b)
- 6.(a)