

Chemistry Test Grade VII
Matter and Its Composition

Time: 1hr

MM: 38

A. Choose the correct option.

1 x 5 = 5

1. All matter

- a. has mass
- b. occupies space
- c. either has mass or occupies space.
- d. has mass and occupies space.

2. Oil, diesel, nitrogen and milk are the examples of

- a. liquids.
- b. solids.
- c. fluids.
- d. gases.

3. The molecules of solids are

- a. loosely held
- b. not very tightly packed.
- c. very tightly packed
- d. free to move.

4. Gases have

- a. a definite shape and an indefinite volume.
- b. an indefinite shape and a definite volume.
- c. a definite shape and a definite volume.
- d. an indefinite shape and an indefinite volume.

5. The force of attraction between the molecules is known as the

- a. intermolecular force of attraction.
- b. intermolecular space.
- c. rigidity.
- d. compressibility.

B. Fill in the blanks.

$\frac{1}{2} \times 8 = 4$

1. The three states of matter are _____, _____ and _____.

2. The intermolecular space is _____ in solids.

3. _____ are the smallest particles of matter.

4. _____ can flow easily in all the directions.

5. _____ and _____ are known as fluids.

C. State whether True or False (T/F).

$\frac{1}{2} \times 4 = 2$

1. Molecules can exist independently.

2. Liquids take the shape of the container in which they are kept.

3. Solids can be compressed easily.

4. In solid, the molecules are far away from each other and loosely packed.

D. Classify the following as solids, liquids and gases.

Eraser, Juice, Petrol, Ball, Air, Common salt, Carbon dioxide, Table.

E. Short answer type questions:

2 X 4 = 8

1. Define-

a. Intermolecular space

b. Molecule

2. Give two examples each of the three states of matter.

3. Give two differences between liquids and gases.

4. Give an example of matter which exists in all the three states.

E. Long answer type questions:

3 X 4 = 12

1. Give five properties each of solids, liquids and gases.

2. Air is a form of matter. Explain this statement in your own words.

3. All gases are fluids but all fluids are not gases. Justify the statement.

4. Write a short note on the topic composition of matter.

F. Differentiate between the properties of the state of matter in tabular form.

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