

ICSE Board
Class VI Chemistry
Sample Paper – 3

Time: 2 hrs

Total Marks: 75

General Instructions:

1. *All questions are **compulsory**.*
 2. *Questions 1 to 15 carry one mark each.*
 3. *Questions in 2 A and B carry one mark each.*
 4. *Questions in 3 A carry one mark each and Question 3 B carries five marks.*
 5. *Questions 4 A and B carry five marks each.*
 6. *Questions in 5 A and B carry one mark each.*
 7. *Questions in 6 A and B carry one mark each.*
 8. *Question 7 carries ten marks.*
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Question 1

Choose the correct answer out of the four available choices given under each question. [15]

1. A glass tube made of pyrex is called a
 - (a) Heating tube
 - (b) Boiling tube
 - (c) Melting tube
 - (d) Cracking tube
2. Frost is the _____ state of water.
 - (a) Solid
 - (b) Liquid
 - (c) Gas
 - (d) Vapour
3. Which of the following is a good conductor of heat?
 - (a) Wood
 - (b) Rubber
 - (c) Cotton
 - (d) Copper
4. The process of conversion of a liquid into a solid is called _____.
 - (a) Melting
 - (b) Vaporisation
 - (c) Condensation
 - (d) Freezing

5. During filtration, the substance left behind on the filter paper is called _____.
(a) Residue
(b) Filtrate
(c) Solution
(d) none of these
6. _____ is the representation of a substance by symbols.
(a) Chemical formula
(b) Chemical structure
(c) Chemical equation
(d) Chemical reaction
7. Elements in compounds are present in _____ and cannot be separated by _____.
(a) Definite proportion, physical methods
(b) Definite proportion, chemical methods
(c) Indefinite proportion, physical methods
(d) Indefinite proportion, chemical methods
8. A separating funnel is used to separate _____.
(a) Solid-liquid mixtures
(b) Solid-solid mixtures
(c) Liquid-liquid miscible mixtures
(d) Liquid-liquid immiscible mixtures
9. Nitrogen is necessary for
(a) Photosynthesis
(b) Respiration
(c) Growth of plants
(d) Burning
10. The % of water in human body is
(a) 25%
(b) 50%
(c) 70%
(d) 90%
11. What is the percentage of carbon dioxide in air?
(a) 0.02–0.03%
(b) 21%
(c) 78–79%
(d) Variable

12. Which of the following is not a rare gas?

- (a) Argon
- (b) Helium
- (c) Krypton
- (d) Hydrogen

13. Drinking polluted water causes _____.

- (a) Jaundice
- (b) Polio
- (c) Tuberculosis
- (d) Cancer

14. Heterogeneous solid-liquid mixtures can be separated using _____.

- (a) Sublimation
- (b) Boiling
- (c) Decantation
- (d) Distillation

15. Cream is separated from milk by _____.

- (a) Winnowing
- (b) Evaporation
- (c) Filtration
- (d) Distillation

Question 2

(A) Define the following: [5]

1. Valency
2. Diatomic molecule
3. Weathering
4. Condensation
5. Intermolecular force

(B) Fill in the blanks and rewrite the sentences: [5]

1. A molecule of nitrogen consist of _____ atoms of element nitrogen only.
2. A compound is formed by combination of at least _____ elements.
3. In solids, the molecules are _____.
4. _____ retain their shape.
5. Water is _____ .

Question 3

(A) State a method to separate the following mixtures: [5]

1. Separating stone particles from wheat grains
2. Separating heterogeneous solid-liquid mixtures
3. Separating saw dust from water
4. Separating mixture of oil and water
5. Separating cream from milk

(B) Write a note on the water cycle. Explain it with the help of a diagram. [5]

Question 4

(A) Give the principle and working of sublimation with an example. [5]

(B) Answer the following: [5]

1. Distinguish between element and compound.
2. Distinguish between physical and chemical changes.

Question 5

(A) State which of the following statements are false. Rewrite the correct statements, if false: [5]

1. Air is all around.
2. Air cannot be compressed.
3. Nitrogen is the major component of air
4. Aquatic animals do not breathe the air dissolve in water.
5. All living organisms breathe air to remain alive.

(B) Match the important chemical compounds in Column A with its uses in column B. [5]

Column A	Column B
1. Fertilisers	1. help in killing weeds which grows along with the crops
2. Insecticides	2. help in killing pests like rats, snakes etc. which destroys the crop
3. Fungicides	3. help in improving soil's fertility
4. Herbicides	4. help in destroying fungi that destroys crops
5. Pesticide	5. help in killing insects that infect and destroys crops

Question 6

(A) Describe a burette, wire-gauze and test tube. Give their uses. [5]

(B) Write the techniques used for separating the following mixtures: [5]

1. Husk and wheat
2. Pebbles from pulses
3. Pure copper sulphate from impurities
4. Sugar from sugar solution
5. Pure water from impure water

Question 7

1. Write a note on the structure of atom. [4]
2. Nitrogen present in the air is essential for the growth and development of plants. Give reason. [3]
3. State the characteristics of states of matter [3]