

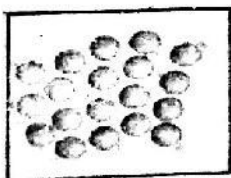
# CHEMISTRY

Standard : VIII

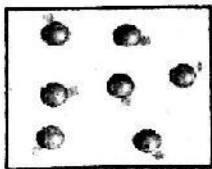
Time: 120 Minutes

Attempt any three of the following questions from 1 to 4 (one mark each)

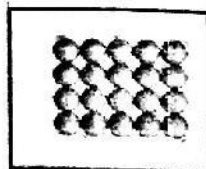
1. Molecular arrangements of solid, liquid and gas are depicted below.



A



B



C

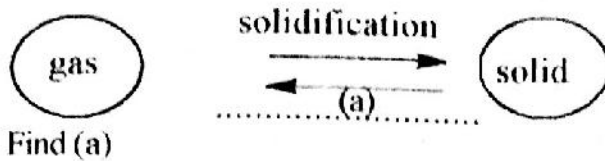
Identify the molecular arrangement of gas

2. Find out the correct statement from the following?

- A. Oxygen is a monoatomic molecule.
- B. Chlorine is an example for a compound molecule.
- C. Water splits into Hydrogen and Oxygen by passing electricity.
- D. The element Chromium got its symbol from the name of a planet.

3. Which one is an example for polyatomic molecule?
- A. Hydrogen  
B. Sulphur  
C. Oxygen  
D. Helium

4.



1 x 3 = 3

Attempt any four of the following questions from five to nine (two mark each)

5. Pick out the correct changes during the transformation of ice to water
- A. Possibility of diffusion increases  
B. Energy of particles decreases  
C. Distance between the particles decreases  
D. Attraction between the particles decreases
6. Symbol of Chlorine is Cl. Represent two Chlorine atoms and one Chlorine molecule by using this symbol?
7. Complete the table.

Element	Basis of Naming	Symbol
Copper	Latin name	(A)
(B)	Name of a scientist	Md

8. Identify the reactants and products from the chemical reaction given
- $$\text{NaOH} + \text{H}_2\text{SO}_4 \longrightarrow \text{Na}_2\text{SO}_4 + \text{H}_2\text{O}$$
9. Which method is used to separate the mixture on the basis of the difference in rate of adsorption of components? Write an example for this type of separation.

4 x 2 = 8

Attempt any three of the following questions from 10 to 13 (three marks each)

10. Samples of some molecules are given below.

5NO <sub>2</sub>	NH <sub>3</sub>	5HNO <sub>3</sub>	7KCl
------------------	-----------------	-------------------	------

- a) Which sample has more number of atoms? 1
- b) Arrange the samples in the increasing order of number of atoms? 2
- 11.
- a) Write the name of this apparatus? 1
- b) Can we adopt this method for the separation of Petrol and Kerosine? Justify your answer. 2

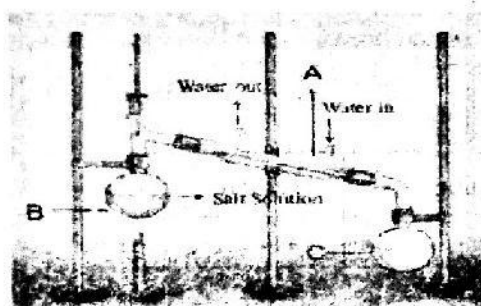


12. Match with column A from column B and C of the given table.

4

A	B	C
Mixture	Properties of components	Method of separation
1. Ethanol+Methanol	Mass difference	Magnetic separation
2. Butter from Curd	Magnetic property	Fractional distillation
3. Aluminium powder	Narrow difference in and Iron powder	Centrifugation boiling points
	Chromatography	

13. Distillation of Salt solution is pictured below:



a) Identify the apparatus A

1

b) Name the products B and C after distillation

2