#### **ICSE Board**

#### **Class VII**

#### Chemistry

## Sample Paper - 2

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 5 marks.
- 5. Questions in 4 carry 5 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 A and 7 B carry five marks.

## **Question 1**

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

- **1.** \_\_\_\_\_\_is used during fermentation.
  - (a) Yeast
  - (b) Fungi
  - (c) Bacteria
  - (d) Microorganism
- **2.** \_\_\_\_\_is an endothermic change.
  - (a) Burning of coal
  - (b) Glowing of an electric lamp
  - (c) Dissolving calcium oxide in water
  - (d) Evaporation of ammonium chloride in water
- **3.** A non-metal stored in water is?
  - (a) Sulphur
  - (b) Iodine
  - (c) Carbon
  - (d) Phosphorus
- **4.** Which of the following is used in the preparation of mortar?
  - (a) Calcium hydroxide
  - (b) Sodium hydroxide
  - (c) Potassium hydroxide
  - (d) Copper hydroxide

<b>5.</b>	A chemical reaction in which heat is evolved is called
	(a) Endothermic reaction
	(b) Precipitation reaction
	(c) Exothermic reaction
	(d) Electrolysis
6.	is used in soft drinks.
	(a) Sulphuric acid
	(b) Carbonic acid
	(c) Hydrochloric acid
	(d) Acetic acid
7.	Sulphur dioxide isin water.
	(a) Highly soluble
	(b) Fairly soluble
	(c) Slightly soluble
	(d) Insoluble
8.	Who first stated that 'atoms contain negatively charged particles called electrons'?
	(a) John Dalton
	(b) J. J. Thomson
	(c) Goldstein
	(d) E. Rutherford
9.	Kerosene can be separated from water usinga
	(a) Separating Funnel
	(b) Centrifuge
	(c) Filter paper
	(d) Sieve
10.	Gun powder is a mixture of
	(a) Sulphur, carbon and potassiumnitrate
	(b) Carbon, sulphur and potassium nitrate
	(c) Sulphur, oxygen and potassiumnitrate
	(d) Oxygen, carbon and potassiumnitrate.
11.	A molecule of an element composed of more than three atoms is known as
	(a) Monoatomic molecule
	(b) Diatomic molecule
	(c) Triatomic molecule
	(d) Polyatomic molecules

<b>12.</b> Petr	oleum is refined using	
	Filtration	
	Sedimentation	
	Distillation	
	Evaporation	
(-)		
<b>13.</b> Pred	ripitation reactions always take place in	
(a) S	Solid state	
(b) (	Gaseous state	
(c) S	Solutions	
(d) A	All states	
<b>14.</b> Duri	ing chlorination,chemicals are used.	
(a) (	Chlorine	
(b) (	Ozone	
(c) I	Bleaching powder	
(d) A	All of the above	
<b>15.</b> Hea	iting of copper carbonate forms	
(a) (	Carbon dioxide	
(b) (	Copper oxide	
(c) (	Carbon dioxide and copperoxide	
(d) (	Carbon oxide and copper dioxide	
Questic	on 2	
(A) Give	a scientific word for the following:	[5]
1.	The change of a solid into liquid	
2.	An apparatus used for collecting gases and holding them incaptivity.	
3.	The type of chemical reaction in which a more reactive element displaces a less	
	reactive element from its compound.	
4.	A substance used to speed up or slow down the chemical reactions without takin	g
	part in the reaction.	
5.	The process by which two miscible liquids are separated	

. ,	ll in the blanks:		[5]
1.		_	
2.		insoluble solid particles to settle down ina	n
	insoluble solid-liquid mixture.		
3.		-	
4.	1 0		
5.	is the most abundant inert	gas present in air.	
Questi (A) Ma	tch the item in Column A with the app	ropriate item inColumn B.	[5]
	Column A	Column B	
	Common salt	CaCO <sub>3</sub>	
N	Marble	NaHCO <sub>3</sub>	
S	Sand	NaCl	
E	Baking soda	Ca(OH) <sub>2</sub>	
	Calcium hydroxide	SiO <sub>2</sub>	
1. 2. 3.	Heterogeneous mixture Element with valency 4 A gas used in air balloon A component of air which helps in c	ontrolling the rate of evaporation	[5]
•	tch the following:		[5]
	Enameling	Iron sheets dipped in molten tin	

<del>-</del>	
Enameling	Iron sheets dipped in molten tin
Painting	Iron articles electroplated with
	chromium
Galvanisation	Baking a mixture of silicates
Tinning	Iron sheets dipped in molten zinc
Chromeplating	Red lead oxide paint

**(B)** Match the following:

The constituent of air which is around 0.02%	Nitrogen
The constituent of air which is inert	Oxygen
The constituent of air which is non-combustible,but supports combustion	Sulphur dioxide
A pollutant in air responsible for acid rain	Carbon dioxide
The main rare gas present in air	Argon

## **Question 5**

(A) State the differences between

[5]

- 1. Physical and Chemical changes
- 2. Metals and non-metals
- **(B)** Give the applications of the following methods used for separation of substances.

[5]

- 1. Sedimentation
- 2. Filtration
- 3. Evaporation
- 4. Distillation
- 5. Centrifugation

## **Question 6**

(A) State whether True or False.

[5]

- 1. Ammonia is acidic in nature.
- 2. When water is added to quick lime, an exothermic reaction takes place and alarge amount of heat is produced.
- 3. The force of attraction between the molecules in solids is maximum.
- 4. Metals have positive valency.
- 5. Evaporation cannot take place at room temperature.
- **(B)** Write the symbols for the following elements:

[5]

Element	Symbol
Helium	
Silver	
Gold	
Tin	
Aluminium	

# **Question 7**

**(A)** Give the chemical formula for the following compounds:

[5]

Compound	Chemical formula
Nitrogen dioxide	Ca(OH) 2
Dinitrogen oxide	H <sub>2</sub> CO <sub>3</sub>
Calcium hydroxide	CuSO <sub>4</sub>
Copper sulphate	NO <sub>2</sub>
Carbonic acid	N <sub>2</sub> O

**(B)** Balance the following reactions:

[5]

1. 
$$Mg + O_2 \longrightarrow MgO$$

2. 
$$2H_2O \longrightarrow H_2 + O_2$$

3. Fe + CuSO<sub>4</sub> 
$$\longrightarrow$$
 FeSO<sub>4</sub> + Cu

4. 
$$NaHCO_3 + H_2SO_4 \longrightarrow Na_2SO_4 + H_2O + 2CO_2$$

5. 
$$Zn + HCl \longrightarrow ZnCl_2 + H_2$$