

ICSE Board
Class VII
Chemistry
Sample Paper – 1

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 and 4 carries 5 marks.*
5. *Questions in 5 A and B carry one mark each.*
6. *Questions in 6 A and B carry one mark each.*
7. *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. _____ are used for dyeing and coloring clothes.

- (a) Animal extracts
- (b) Plant extracts
- (c) Fossil fuels
- (d) Salts

2. An evaporating dish is made of _____.

- (a) Porcelain
- (b) Steel
- (c) Aluminum
- (d) Wood

3. Bronze is an alloy of _____.

- (a) Copper and tin
- (b) Copper and silver
- (c) Copper and nickel
- (d) Copper and aluminum

4. Which of the following is volatile in nature

- (a) Common salt
- (b) Petrol
- (c) Water
- (d) Milk

5. Burning of fuels releases_____in the atmosphere.
- (a) Carbon dioxide and water vapour
 - (b) Oxygen and water vapour
 - (c) Sulphur dioxide and water vapour
 - (d) Carbon monoxide and water vapour
6. Balancing chemical equation is based on
- (a) Law of conservation of mass
 - (b) Mass of reactant and product
 - (c) Symbols and formulae
 - (d) None of the above
7. Nuts contain_____.
- (a) Carbohydrates
 - (b) Proteins
 - (c) Fats
 - (d) Methane
8. A fuel when used releases least amount of pollutants in the air.
- (a) Sulphur dioxide
 - (b) chlorofluorocarbon
 - (c) smoke
 - (d) CNG
9. Which of the following is used in advertising signboards?
- (a) Argon
 - (b) Krypton
 - (c) Xenon
 - (d) Helium
10. _____is hydrated calcium sulphate.
- (a) Marble
 - (b) Talc
 - (c) Gypsum
 - (d) Coal
11. Which of the following involves a change from the solid state directly to the gaseous state?
- (a) Evaporation
 - (b) Sublimation
 - (c) Condensation
 - (d) Solidification

12. Petroleum is refined using_____.

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

13. The symbol of mercury is_____.

- (a) Me
- (b) Hg
- (c) Mg
- (d) He

14. The molecular formula of hydrogen is_____.

- (a) H₁
- (b) H₂
- (c) H₃
- (d) H₄

15. The process by which oxidation of food in our body take place is

- (a) Photosynthesis
- (b) Respiration
- (c) Decomposition
- (d) Combustion

Question 2

(A) Give a scientific word for the following:

[5]

1. A gas liberated when dilute acids react with metals.
2. An alloy of copper, tin and zinc.
3. A substance made by fusing sand, soda and gravel.
4. A substance used to speed up or slow down the chemical reactions without taking part in the reaction.
5. Molecules of an element containing three atoms of the sametype.

(B) Fill in the blanks and rewritethe sentences:

[5]

1. Latin name for copper is_____.
2. Oxygen occupies about_____of air by volume.
3. _____is used in observation balloons.
4. _____is used to prepare solutions for medicinal purposes, laboratories andcar batteries.
5. Plaster of Paris is_____.

Question 3

(A) Match the item in Column A with the appropriate item in Column B.

[5]

Column A	Column B
Global warming	Hydrated ferric oxide
Acid rain	Manganese oxide
Rust	Carbon dioxide
Catalyst	Ozone
Photosynthesis	Nitrogen dioxide

(B) Give uses of following inert gases

[5]

1. Helium
2. Argon
3. Neon
4. Radon
5. Xenon and Kryptons

Question 4

(A) Classify the following elements as metals , non-metals and metalloids

[5]

Silicon	
Sulphur	
Platinum	
Hydrogen	
Copper	

(B) Define the following:

[5]

1. Homogeneous mixtures
2. Rusting of iron
3. Nitrogen fixation
4. Atomicity
5. Polyatomic molecules

Question 5

(A) Give the chemical formulae for the following: [5]

1. Hydrochloric acid
2. Potassium hydroxide
3. Sulphuric acid
4. Aluminium sulphate
5. Magnesium oxide

(B) State five characteristics of chemical reactions [5]

Question 6

(A) State whether True or False. [5]

1. Milk is a mixture.
2. No new substance is formed during chemical change.
3. Sulphuric acid is a weak acid.
4. Black residue is formed when sugar is heated.
5. A conical flask is used for storing and mixing liquids.

(B) Match the apparatus with its correct use. [5]

Bunsen burner	Mixing and storing gases
Thistle funnel	Heating purposes
Wire gauze	Measuring liquids
Measuring cylinder	Transferring liquids
Conical flask	Preventing cracking of a glass apparatus during heating

Question 7

1. Distinguish between metal and non-metal [4]
2. Distinguish between pure substance and mixture. [3]
3. Distinguish between physical and chemical changes. [3]