



Silver Grove School

Annual Examination 2025-26

Set A

Subject : Chemistry

Class – 7

Time : 1½ Hours

Maximum Marks : 50

General Instructions :

- All questions are compulsory.
 - Draw neat and labelled diagrams wherever required.
 - Marks for each question are indicated against it.
-

(SECTION – A)

Q1. Tick (✓) the correct option:

(1x 5 = 5 marks)

(i) Which metal is liquid at room temperature?

- (a) Iron (b) Mercury
(c) Copper (d) Aluminium

(ii) The most abundant gas in air is:

- (a) Oxygen (b) Carbon dioxide
(c) Nitrogen (d) Argon

(iii) Which of the following causes acid rain?

a) Magnesium oxide b) sulphur oxide. c) oxygen. d) Hydrogen chloride.

(iv) Which of the following can arise due to air pollution?

- a) Soil erosion. b) Respiratory problems c) water pollution. d) None of these .

(v) Metals possess a property of making ringing sound when hit or dropped this property of metals is called ?

(a) Ductility. b) Malleability. c) Sonority. d) Conductivity

Q2. Fill in the blanks

(1 × 4 = 4 marks)

- (a) Most metals are ____ conductors of electricity.
(b) ____ gas is filled in electric bulbs.
(c) Most non metallic oxides are ____ in nature where as metallic oxides are ____ in nature.
(d) All fuels burn in the presence of ____.

Q3. Match the Following

(1 × 5 = 5 marks)

Column A

1. Mercury
2. Brass
3. Rusting
4. Neon
5. Combustion

Column B

- a. Alloy
- b. fast process
- c. Noble gas
- d. Liquid metal
- e. slow process

Q4. State Whether the following statements are True or False

(0.5 × 5 = 2.5 marks)

- (a) Sodium is stored under water.
- (b) Oxygen supports combustion.
- (c) Oxygen is used in aerated drinks
- (d) Helium is used to fill air balloons.
- (e) Air pollution occurs only by natural sources.

(SECTION - B)

Q5. Give One Word for the following

(0.5 × 5 = 2.5 marks)

- (a) A metal that can be drawn into wires
- (b) A gas used in advertising signs
- (c) A cleaner fuel than petrol
- (d) This gas is used to fill electric light bulbs.
- (e) A gas which occurs naturally in the earth upper atmosphere.

Q6. Odd One Out

(0.5 × 5 = 2.5 marks)

- (a) Iron, copper, aluminium, sulphur
- (b) Oxygen, nitrogen, carbon dioxide, petrol
- (c) Brass, bronze, steel, mercury
- (d) bromine ,oxygen, nitrogen and hydrogen
- (e) sodium, potassium ,Phosphorus and calcium

Q7. Short Answer Questions

(2 × 4 = 8 marks)

(Attempt any four)

- (a) What is malleability?
- (b) Why are metals used to make cooking utensils?
- (c) metals are sonorous while non metals are non sonorous.explain
- (d) What happens when metals react with water
- (e) What is dry ice?

(SECTION - C)

Q8. Long Answer Questions

(2.5x2=5 marks)

- (a)What are the human activities that cause air pollution?

or

What is rusting? Explain the conditions required for rusting.

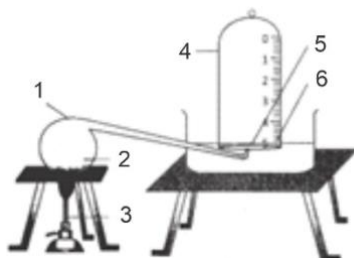
- (b) What do you understand by air pollutants give three example?

or

give some uses of noble gases.

Q9. Label the Diagram

(3 marks)



Q10. Case-Based Question

(2 marks)

Ravi noticed that an iron gate in his house developed a reddish-brown coating after the rainy season.

- (a) Name the process involved.
- (b) Name the substance formed on the iron gate.
- (c) Mention two conditions required for this process.
- (d) Write one method to prevent this process.

or

Air pollutants like carbon monoxide, sulphur dioxide and nitrogen oxides are released from vehicles, factories and burning of fuels. These harmful gases mix with air and cause air pollution, which affects human health and the environment.

(a) State any two causes of air pollution.

(b) Mention any two harmful effects of air pollution.

Q11. Project

(10 marks)