

First Terminal Evaluation 2025-26

Chemistry, Class VIII

Score: 20 Time: 40 Minutes

Instructions

- Answer any 3 questions from 1 to 4 (1 score each, Total: 3).
- Answer any 4 questions from 5 to 9 (2 scores each, Total: 8).
- Answer any 3 questions from 10 to 13 (3 scores each, Total: 9).

Section A: Multiple-Choice Questions (3 out of 4, 1 score each, Total: 3)

1. Which of the following is a characteristic of matter?
 - (a) It has no mass
 - (b) It occupies space
 - (c) It does not change state
 - (d) It has no volume
2. Which of these is an example of a chemical change?
 - (a) Melting of ice
 - (b) Burning of firewood
 - (c) Dissolution of salt in water
 - (d) Formation of ice
3. Which scientist proposed that all matter is made up of indivisible particles called atoms?
 - (a) Henry Cavendish
 - (b) Sir Humphry Davy
 - (c) Democritus
 - (d) Mendeleev

4. In the chemical formula 2N_2 , how many nitrogen atoms are present?
- (a) 2
 - (b) 4
 - (c) 6
 - (d) 8

Section B: Short-Answer Questions (4 out of 5, 2 scores each, Total: 8)

5. **Answer the following about states of matter:**
- (a) In which state of matter are the particles farthest apart? (1)
 - (b) Why do solids have a fixed shape? (1)
6. **Classify the following as physical or chemical changes:**
- (a) Rusting of iron (1)
 - (b) Melting of wax (1)
7. **Answer the following about electrochemical reactions:**
- (a) What is the process of coating a metal with another metal using electricity called? (1)
 - (b) Name one metal commonly used for coating ornaments. (1)
8. **Complete the following chemical equation and identify the type of reaction:**
- Quicklime + Water \rightarrow Slaked lime + ____ (1)
- Type of reaction: ____ (1)
9. **Calculate the total number of atoms in 3NH_3 .**
- Show your working. (2)

Section C: Long-Answer Questions (3 out of 4, 3 scores each, Total: 9)

10. **Refer to the reaction of magnesium with hydrochloric acid:**
- (a) Write the chemical equation for the reaction. (1)
 - (b) What gas is produced, and how can it be identified? (1)
 - (c) Is this reaction exothermic or endothermic? Explain. (1)
11. **Answer the following about the Periodic Table:**
- (a) What is the basis of Mendeleev's Periodic Table? (1)

- (b) Why did Mendeleev leave blank spaces in his table? (1)
- (c) Name one limitation of Mendeleev's Periodic Table. (1)

12. Observe the activity of heating sugar in a boiling tube:

- (a) What are the products formed when sugar is heated? (1)
- (b) Is this a physical or chemical change? Why? (1)
- (c) Write the chemical equation for this reaction. (1)

13. Answer the following about diffusion:

- (a) Define diffusion and give one example from daily life. (1)
- (b) Why does diffusion occur faster in gases than in liquids? (1)
- (c) Describe an activity to demonstrate diffusion in liquids. (1)