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FOR MEGHALAYA CLASS 7 PREPARATION

# MBOSE Class 7 Sample Question Paper 2027 Science

| EXAM | YEAR | TYPE | SUBJECT |
| --- | --- | --- | --- |
| Meghalaya Class 7 | 2027 | Sample Paper | Science |

# SAMPLE QUESTION PAPERS

# FOR

# CLASSES VI TO VIII

## MID- TERM EXAMINATION

## FOR THE ACADEMIC YEAR- 2026

## ENGLISH
## MIL (KHASI, GARO & HINDI)
## MATHEMATICS
## SCIENCE
## &
## SOCIAL SCIENCE

DIRECTORATE OF EDUCATIONAL RESEARCH & TRAINING
NONGRIMMAW, LAITUMKHRAH
SHILLONG

2026

# FOREWORD

The National Education Policy (NEP) 2020 has ushered in a transformative shift in the way we perceive teaching, learning, and assessment in our schools. At the heart of this change lies a focus on competency-based education — an approach that emphasizes the application of knowledge, critical thinking, and the development of real-life skills among students.

The National Curriculum Framework for School Education (NCFSE) 2023 emphasizes competency-based learning and assessment, shifting the focus from rote memorization to the practical application of knowledge and skills. Competency-based assessment (CBA) evaluates a student's ability to use their knowledge and skills in real-world contexts, rather than just their recall of facts. This approach aligns with the goals of the National Education Policy (NEP) 2020, which aims to foster critical thinking, problem solving, and other 21st century skills.

The Directorate of Educational Research and Training (DERT), Meghalaya, is committed to enhancing the quality of School education in the State through academic support, curriculum development, and capacity building. As part of this ongoing endeavour, the present set of sample question papers has been developed in aligning classroom instruction with assessment patterns.

In line with this progressive vision, the **Sample Question Papers for Classes 6 to 8 across subjects- Science, Mathematics, Social Science and Languages which include English, Khasi, Garo and Hindi which are oriented towards Competency-Based Assessment** and have been developed as a resource to support teachers, and students in navigating this important transition. These sample question papers are designed not merely to test rote memorization, but to assess the depth of understanding, analytical skills, and the ability of learners to apply concepts in novel situations.

The sample question papers included in this document aim to promote active engagement with the curriculum, nurture curiosity, and encourage problem-solving. Teachers can use these as models to create meaningful classroom assessments, while students can gain a clearer understanding of what is expected in a competency-driven learning environment.

We hope that this collection will serve as a valuable tool in enhancing the quality of assessment practices in schools, and in turn, contribute to building a more holistic and learner-cantered education system.

I would like to extend my sincere appreciation to all the contributors involved in this academic endeavour. Constructive feedback from users of this resource is welcomed and will be valuable in guiding future improvements.

Let us continue working together to foster a culture of thoughtful learning and fair assessment, paving the way for a generation that is confident, capable, and future-ready.

Director,
Directorate of Educational Research & Training,
Meghalaya, Shillong.

## Background Note

NEP 2020 envisions a transformation in school assessment, away from rote memorization towards formative, regular, competency-based evaluation that tests higher-order thinking like analysis, critical thinking, and conceptual understanding

NCFSE 2023 builds on that vision and emphasizes “assessment as learning”, “for learning”, and “of learning” which are oriented towards competencies and capacities development in the learners.

Competency-Based Assessments under NEP 2020 and NCFSE 2023 are a reformative thrust toward holistic, skills-based, student-cantered learning. Through ongoing formative checks, diverse assessment modes, rubrics, self-reflection, and board-level flexibility, the new paradigm seeks to nurture critical thinkers rather than rote learners.

Competency-based questions (CBQs) and competency-based assessments (CBAs) play a crucial role in learning, and performance evaluation. They shift the focus from rote memorization or general qualifications to real-world skills, behaviours, and outcomes.

The Sample Question Papers prepared and developed by the Directorate of Educational Research and Training are based on the revised syllabus 2026 of Meghalaya School Education for classes 6 to 8 across core subjects such as Science, Mathematics, Social Science and Language including English, Khasi, Garo and Hindi.

These sample question papers across these grades and subjects shift focus from rote memorization to the application of knowledge, critical thinking, and real-world problem-solving skills and allow students to realise that what they learn in school is to help them relate with realities of life and to prepare them for the future as responsible and contributing citizens.

The key benefits of these sample questions across the subjects Science, Mathematics, Social Science and Language including English, Khasi, Garo and Hindi and across grades 6 to 9, is that they serve both as practice tools and as assessment frameworks, helping teachers design questions that test learners beyond their conceptual understanding and to help in assessing their higher-order reasoning and application capacities and skills.

Furthermore, these sample questions can serve as tools for teachers for test planning, question framing, and assessing higher-order skills. Besides this is will also help prepares teachers and students for practice aligned with demands of real competency-based items in future board exams offering exposure to varied question formats.

Furthermore, these sample questions will help to equip students with the capacities to apply knowledge in new situations, rather than recalling facts.

Another benefit of these sample question papers is to help identify and bridge learning gaps by spotlighting specific competencies.

This document stands as a strategic resource meant to mainstream competency-based assessment in middle and secondary stages of school education. It reflects a broader curricular transition, addresses the evolving demands for effective progression into higher grades.

## *CONTENT*

***FOREWORD ----------***
***BACKGROUND NOTE----------***

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## *SAMPLE QUESTION PAPER*

| ***Subjects*** | ***Class*** |
|---|---|
| English Class | VI |
| English Class | VII |
| English Class | VIII |
| MIL Khasi Class | VI |
| MIL Khasi Class | VII |
| MIL Khasi Class | VIII |
| MIL Garo Class | VI |
| MIL Garo Class | VII |
| MIL Garo Class | VIII |
| Mathematics Class | VI |
| Mathematics Class | VII |
| Mathematics Class | VIII |
| Science Class | VI |
| Science Class | VII |
| Science Class | VIII |
| Social Science Class | VI |
| Social Science Class | VII |
| Social Science Class | VIII |
| MIL Hindi Class | VI |
| MIL Hindi Class | VII |
| MIL Hindi Class | VIII |

**SCIENCE**
**CLASS VII**

**Time: 3 Hours**
**Maximum Marks: 80**

**General Instructions:**

- Answer all questions
- Please check that there are 54 questions in the Question Paper
- Marks for each question are indicated against the question
- The question paper is divided into seven sections – Section – A, B, C, D, E, F, G

Section A – contains multiple choice questions of 1 mark each (5 marks)
Section B – contains Fill in the Blanks of 1 mark each (5 marks)
Section C – contains True or False carrying 1 mark each (5 marks)
Section D – are Match the following Column carrying 1 mark each (5 marks)
Section E – consists of Very Short Answer type question of 1 mark each (15 marks)
Section F – Short Answer of 2 marks each (20 Marks)
Section G – Long Answer of 5 marks each (25 Marks)

## SECTION A

**Multiple Choice Questions** **(1x5=5)**

1. Which of the following organs is the main site for the complete digestion of fats?

   (A) stomach (B) mouth

   (C) small intestine (D) large intestine

2. Normal breathing rate per minute for an average adult person at rest is:

   (A) 9-12 (B) 15-18

   (C) 21-24 (D) 30-33

3. Which of the following is NOT a forest product?

   (A) Gum (B) Plywood

   (C) Sealing wax (D) Kerosene

4. In cockroaches, air enters the body through:

   (A) Lungs (B) Gills

   (C) Spiracles (D) Skin

5. Cuscuta is an example of a/an:

   (A) Autogroph (B) Parasite

   (C) Saprotroph (D) Host

## SECTION B

**Fill in the Blanks with appropriate answers (1x5=5)**

6. The inner wall of the small intestine has many finger-like outgrowths called _____.
7. Temperature is measured in degrees _____.
8. The food synthesised by plants is stored as _____.
9. The combination of two or more cells is called a _____.
10. Changes in which new substances are formed are called _____ changes.

## SECTION- C

**State whether the following statement are True or False (1x5=5)**

11. Cutting of log of wood into pieces is a chemical change.
12. The tongue helps in mixing food with saliva
13. Carbon dioxide is released during photosynthesis.
14. An electromagnet does not attract a piece of iron.
15. Condensation of steam is not a chemical change.

## SECTION D

**Match the items given in Column I with those in Column II: (1x5=5)**

| Column I | Column II |
|---|---|
| 16. Chlorophyll | (a) Night |
| 17. Land breeze blows during | (b) Alcohol |
| 18. Carbohydrates | (c) Habitat |
| 19. Yeast | (d) Leaf |
| 20. Forest | (e) Sugar |

## SECTION E

**Very Short Answer Type Questions (1 × 10 = 10)**

29. Name the pores through which the leaves exchange gases.
30. Write the chemical name of baking soda?
31. What is the term used for inhalation and exhalation?
32. Name the type of carbohydrate that can be digested by ruminants but not by humans.
33. Write the formula of Lime water
34. What is the name of the safety device based on the heating effect of electric current called?
35. Give one example of an insectivorous plant.
36. What is the process of transfer of heat that does not require any medium?
37. State one cause of deforestation?
38. Give the one example of autotrophs.

## SECTION-F

**Short Answer Type Questions** **(2 × 10 = 20)**

39. Classify the following as physical or chemical changes
    (a) Melting of wax (b) Burning of wood
40. Write any two ways which help in preventing forest floods
41. State any two similarities between aerobic and anaerobic respiration.
42. Describe in short any two effects of electric current.
43. Why does an athlete breathe faster and deeper than usual after finishing a race?
44. How do fish breathe under water?
45. Give two examples each of conductors and insulators of heat.
46. Why is it advised that the outer walls of houses in places with hot climate be painted white?
47. Why do we need to install an electric fuse in our building?
48. Why do we often sneeze when we inhale a lot of dust-laden air?

## SECTION G

**Long Answer Type Questions** **(5 × 6 = 30)**

49. What is rusting of iron? Explain how painting an iron gate prevents it from rusting? (2+3)

    OR

    When baking soda is mixed with Lemon juice, bubbles are formed with the evolution of a gas. What type of change is it? Explain **(1+4)**
50. Briefly description the process of photosynthesis in green plants
51. State the similarities and differences between a laboratory thermometer and a clinical thermometer.
52. Explain the role of forests in maintaining the balance between oxygen and carbon dioxide in the atmosphere.
53. Draw a neat, labelled diagram of the human digestive system.
54. When the current switched on through a wire, a compass needle kept nearby gets deflected from its North-South position. Explain why this happens?