



Class: X

Time Allowed: 20 minutes

MODEL PAPER EXAMINATION 2025

SUBJECT: GENERAL SCIENCE

Q1:

(SECTION "A")

Marks: 15

Note: Attempt **ALL** questions from Section 'A'. Each question carries **ONE** mark.

1. \_\_\_\_\_ gas contributes the most to global warming.  
A. Carbon dioxide      B. Methane      C. Nitrous oxide      D. Ozone
2. The function of a circuit breaker is to \_\_\_\_\_.  
A. Connect electrical circuit      B. Disconnect electrical circuit  
C. Regulate electrical voltage      D. Measure electrical current
3. \_\_\_\_\_ is commonly used for making fuse wire.  
A. Iron      B. Alloy of lead and tin      C. Aluminum      D. Zinc
4. The mixture of clay and graphite is used in making \_\_\_\_\_.  
A. Pencil      B. Plastic      C. Paper      D. Chalk
5. During respiration, all living beings absorb \_\_\_\_\_.  
A. Ammonium      B. Ammonia      C. Oxygen      D. Hydrogen
6. \_\_\_\_\_ stage of mitosis involves separation of sister chromatids.  
A. Prophase      B. Metaphase      C. Telophase      D. Anaphase
7. The main cause of air pollution is \_\_\_\_\_.  
A. Vehicle emissions      B. Natural disasters      C. Industrial waste      D. Agricultural activities
8. The primary function of optical fiber is to transmit \_\_\_\_\_.  
A. Electrical signals      B. Light signals      C. Radio waves      D. X-rays
9. Soil erosion, climate change and loss of biodiversity are the main consequences of \_\_\_\_\_.  
A. Earthquake      B. Flood      C. Deforestation      D. Cyclone
10. The main cause of global warming is \_\_\_\_\_.  
A. Deforestation      B. Burning of fossil fuels      C. Industrial waste      D. Natural disaster
11. The frequency range of ultrasound waves is \_\_\_\_\_.  
A. 10 – 20 Hz      B. 20 – 20,000 Hz      C. 20,000 – 100,000 Hz      D. 100,000 – 200,000 Hz
12. The substance used as a medium between the two plates of a capacitor is known as \_\_\_\_\_.  
A. Conductor      B. Semiconductor      C. Dielectric      D. Electrolyte
13. \_\_\_\_\_ contributes most to acid rain.  
A. Sodium chloride      B. Sulfur dioxide      C. Carbon monoxide      D. Particulate matter
14. Full form of LASER is \_\_\_\_\_.  
A. Light Amplification by Stimulated Emission of Radiation  
B. Light Amplification by Spontaneous Emission of Radiation  
C. Light Amplification by Stimulated Emission of Relativity  
D. Light Amplification by Spontaneous Emission of Relativity
15. A common application of EEG is to \_\_\_\_\_.  
A. Diagnose heart condition      B. Monitor brain activity  
C. Treat mental disorder      D. Measure blood pressure

**END OF SECTION A**



Class: X

MODEL PAPER EXAMINATION 2025

Time: 2 hours 40 minutes

SUBJECT: GENERAL SCIENCE (SECTION "B" AND SECTION "C")  
SECTION "B" (SHORT ANSWER QUESTIONS)Total Marks 60  
30 Marks

**Note:** Attempt any **SIX** questions from Section 'B'. Each question carries **FIVE** marks.

- Q.2 How does 'grounding' help prevent electrostatic shock?
- Q.3 Identify the visible signs that indicate that a chemical reaction has taken place.
- Q.4 Analyze the structural differences between RNA and DNA.
- Q.5 Why is early diagnosis crucial for effective management of thalassemia?
- Q.6 Analyze the effects of deforestation on water resources in Pakistan.
- Q.7 How does climate change affect economic development?
- Q.8 Why is environmental education essential for addressing climate change?
- Q.9 What are the potential health risks associated with excessive technology use?
- Q.10 Analyze the advantages of Magnetic Resonance Imaging (MRI) over other medical imaging techniques (e.g. CT scan, X-rays).
- Q.11 Why is mobile-based education essential for developing 21<sup>st</sup> century skills?

**SECTION "C" DETAILED ANSWER QUESTIONS****30 Marks**

**Note:** Attempt any **THREE** questions from Section 'C'. Each question carries **TEN** marks.

- Q.12 Evaluate the environmental cost and benefits of the methods of electrical energy production used in Pakistan.
- Q.13 Analyze the role of chemical reactions which are used in the process of food processing and making fabric.
- Q.14 Why is biotechnology essential for Pakistan's economic growth and development?
- Q.15 Evaluate the impact of climate change on global freshwater availability and distribution.
- Q.16 Why are glaciers necessary for Pakistan's ecosystem and biodiversity?

**END OF PAPER**