

**Class: X****Time Allowed: 20 minutes****Q1:****Note: Attempt ALL the MCQs from Section "A". Each MCQ carries ONE mark.****Marks: 15**

1. What is the unit of electric charge?

- A. Ampere
- B. Volt
- C. Coulomb
- D. Ohm

2. Why do objects become charged?

- A. Due to gain of protons
- B. Due to loss of electrons
- C. Due to gain of electrons
- D. Due to loss of neutrons

3. What is a potential environmental problem with dumping plastics in landfills?

- A. They take a long time to decompose.
- B. They attract pests.
- C. They release bad odours.
- D. They react with other chemicals.

4. What indicates that a chemical reaction has occurred when oil and sodium hydroxide are mixed to make soap?

- A. The mixture becomes cold.
- B. The mixture changes colour.
- C. The mixture releases a gas.
- D. The mixture forms a precipitate.

5. What is the main function of DNA in a cell?

- A. To synthesize proteins.
- B. To regulate cell growth.
- C. To produce energy.
- D. To store genetic information.

6. What is the relationship between genes and chromosomes?

- A. Genes are made up of chromosomes.
- B. Chromosomes are made up of genes.
- C. Genes and chromosomes are unrelated.
- D. Genes are the same as chromosomes.

7. What is the purpose of mitosis in cell division?

- A. To produce gametes.
- B. To increase genetic variation.
- C. To repair damaged tissues.
- D. To produce identical daughter cells.

8. What percentage of water on the earth is fresh water?

- A. 3%
- B. 30%
- C. 50%
- D. 70%

9. What is a method of reclamation of water?

- A. Building dams.
- B. Treating waste water.
- C. Desalination of seawater.
- D. Increasing evaporation.

10. What is the main cause of ozone depletion in the stratosphere?

- A. Carbon dioxide emissions.
- B. Methane emissions.
- C. Chlorofluorocarbons (CFCs).
- D. Nitrous oxide emissions.

11. Is acid rain primarily caused by?

- A. Emissions of sulfur dioxide and nitrogen oxides.
- B. Emissions of carbon dioxide.
- C. Emissions of methane.
- D. Emissions of ozone.

12. What is the principle behind the working of lasers?

- A. Reflection of light.
- B. Refraction of light.
- C. Amplification of light.
- D. Diffraction of light.

13. What does ECG stand for, and what is its use?

- A. Electrocardiogram, to monitor heart activity.
- B. Electroencephalogram, to monitor brain activity.
- C. Electromyogram, to monitor muscle activity.
- D. Echocardiogram, to monitor heart structure.

14. What is the use of radiotherapy in medicine?

- A. To treat cancer
- B. To diagnose diseases
- C. To produce images of internal structures
- D. To monitor patient health

15. What is the use of optical fiber system in communication?

- A. To transmit data
- B. To receive data
- C. To amplify signals
- D. To reduce signal loss

**END OF SECTION "A"**



Class: X

Time: 2 hours 40 minutes

**MODEL PAPER 2026**  
**SUBJECT: GENERAL SCIENCE (SECTION "B" & 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 Identify the characteristics of static charges and their effects on objects.
- Q.3 Explain the concept of parallel circuits and their application in household wiring.
- Q.4 Identify the chemical reactions involved in hair dyeing.
- Q.5 Describe the potential environmental impacts of improper chemical disposal in Pakistan.
- Q.6 Explain the importance of chromosomes and genes in heredity.
- Q.7 Describe the methods of water conservation that can be used in Pakistan.
- Q.8 Describe the impact of El-Nino and La-Nina on the climate of Pakistan.
- Q.9 Explain the harmful effects of excessive use of mobile phones on health.
- Q.10 Describe the uses of lasers in medicine and telecommunications.
- Q.11 Identify the benefits of using satellites in communication and navigation.

**SECTION "C" (DETAILED ANSWER QUESTIONS)**

**30 Marks**

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

- Q.12 Examine the advantages and disadvantages of using static electricity in industrial applications
- Q.13 Compare and contrast the use of traditional media (TV, radio) and modern media (internet, social media) for information dissemination.
- Q.14 Analyze the impact of climate change on water resources in Pakistan.
- Q.15 Evaluate the effects of El-Nino and La-Nina on agriculture and water resources.
- Q.16 Contrast the benefits and drawbacks of using GPS and GIS in navigation.

**END OF PAPER**