

**Class: X****Time Allowed: 20 minutes****MODEL PAPER 2026****SUBJECT: GENERAL SCIENCE****Q1:****SECTION "A" (MULTIPLE CHOICE QUESTIONS)****Marks: 15****Note:** Attempt ALL the MCQs from Section "A". Each MCQ carries ONE mark.

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****MODEL PAPER 2026****Time: 2 hours 40 minutes****SUBJECT: GENERAL SCIENCE (SECTION "B" & SECTION "C")****Total Marks 60****SECTION "B" (SHORT ANSWER QUESTIONS)****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