

GENERAL SCIENCE Paper-X (26)

۱۔ ہر سوال کے سامنے چار دائرے دیئے گئے ہیں، صرف صحیح جواب والا دائرہ بھر دیں۔

۲۔ دائروں کو شیڈ (بھرنے) کے لیے نیلے یا کالے رنگ کا مارکر استعمال کریں۔

۳۔ جواب میں ایک سے زائد دائرے بھرنے سے جواب غلط تصور ہو گا۔

Time: 20 Minutes

SECTION-A

Marks: 15

Q1: Choose the correct option i.e, A,B,C or D?

1. Which one rod will become positively charged when rubbed with silk?

☐ Glass rod	☐ Carbon rod
☐ Silver rod	☐ Ebonite rod
2. Which among the following is not a chemical change?

☐ Melting of ice	☐ Soap making
☐ Rusting of iron	☐ Fermentation
3. In glucose metabolism the pyruvate molecules maybe fermented into _____.

☐ Ethanol	☐ Carbonic acid
☐ Acetic acid	☐ None of these
4. The path on which the current flows is called _____.

☐ Resistance	☐ Resistor	☐ Circuit	☐ None
----------------------------------	--------------------------------	-------------------------------	----------------------------
5. Chromosomes can be counted best at the stage of _____.

☐ Metaphase	☐ Anaphase	☐ Telophase	☐ Anaphase
---------------------------------	--------------------------------	---------------------------------	--------------------------------
6. During meiosis-I, the number of chromosomes is _____.

☐ Halved	☐ Tripled
☐ Doubled	☐ Quadrupled
7. Which human activities need the most water?

☐ Personal hygiene	☐ Cooking
☐ Irrigation	☐ Drinking
8. About 30% world fresh water is in the form of _____.

☐ Solid	☐ Liquid
☐ Gas	☐ Water vapors

9. Ultraviolet radiation from sun that reaches the earth cause ____.
- ☐ Respiratory disorder ☐ Typhoid fever
☐ Skin cancer ☐ Bronchitis
10. All of the following are layers of earth's atmosphere EXCEPT.
- ☐ Troposphere ☐ Lithosphere
☐ Stratosphere ☐ Thermosphere
11. CT scan can take cross sectional images of the body by using ____.
- ☐ X-rays ☐ Laser beam
☐ Ultrasonic waves ☐ Radioactivity
12. Laser used for communication is in the form of ____.
- ☐ Heat ☐ Light ☐ Electricity ☐ Sound
13. Number of chromosomes in man is ____.
- ☐ 42 ☐ 44 ☐ 46 ☐ 48
14. Human ear can respond to a sound having frequencies between ____.
- ☐ 20Hz to 20KHz ☐ 20Hz to 25KHz
☐ 20Hz to 30KHz ☐ 20Hz to 35KHz
15. Which one of the following causes acid rain?
- ☐ Hydrocarbons ☐ Methane
☐ Halogens ☐ Sulphur dioxide

GENERAL SCIENCE Paper-X (26)

Note: Time allowed for Section-B & Section-C is 2:40 hours.

SECTION-B

Marks: 36

Q2: Write short answer to any NINE of the following parts. All parts carry equal marks.

1. What is meant by polarization of charge?
2. Why a metallic chain is hanging from the rear side of a petrol supply tanker?
3. Describe how old tyres can be recycled and reused?
4. Define saponification reaction?

5. What is the role of nuclear pores in the nucleus?
6. Briefly write about the significance of mitosis.
7. What do you mean by fresh water? Why it is important for us?
8. Explain the methods of reclamation of water.
9. What are natural disasters and in which forms these are exhibited?
10. Write down the main causes of ozone depletion?
11. Why optical fiber is better than copper cable for telecommunication?
12. Write four uses of lasers in different fields.

SECTION-C

Marks: 24

Note: Answer any THREE questions. All question carry equal marks.

- Q3: (a) What is a circuit breaker? Describe its importance.
(b) Write about the practical uses of current electricity in household appliances.
- Q4: (a) Explain the process of rusting of iron.
(b) Enlist major pressures on water resources.
- Q5: (a) Write the role of RNA as a carrier of information.
(b) What do you mean by genetic disorders? Give examples.
- Q6: (a) What is climate change? Describe some of its effects?
(b) Describe the main components of a computer.