

**General Science (New)**

10th (Fresh/Reappear)

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 تھا۔ ہو گا۔

Time: 20 Minutes

**SECTION-A**

Marks: 15

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

- How many percent, earth surface is covered with water?  
☐ 50%      ☒ 71%      ☐ 80%      ☐ 96.5%
- Which human activities need most water?  
☐ Personal hygiene      ☐ Cooking  
☒ Irrigation      ☐ Drinking
- Ozone layer is present in:  
☐ Troposphere      ☐ Mesosphere  
☒ Stratosphere      ☐ Thermosphere
- Which of the given is an air pollutant.  
☐ Nitrogen      ☐ Carbon dioxide  
☒ Carbon monoxide      ☐ Oxygen
- Laser is used for communication in the form of:  
☐ Heat      ☒ Light      ☐ Electricity      ☐ Sound
- In yogurt production \_\_\_\_\_ is changed into lactic acid.  
☐ Glucose      ☒ Lactose      ☐ Sucrose      ☐ Maltose
- Number of chromosome in housefly is:  
☐ 1      ☐ 3      ☐ 6      ☒ 12
- During mitosis number of chromosomes.  
☐ Halved      ☒ Remain same      ☐ Doubled      ☐ Tripled
- What causes Thalassaemia?  
☐ Abnormal blood      ☒ Abnormal hemoglobin  
☐ Abnormal WBCs      ☐ Abnormal platelets
- Saline water is present in:  
☒ Sea      ☐ Lakes      ☐ Rivers      ☐ Rain
- An object that is negatively charged has:  
☐ Gained protons      ☐ Lost protons  
☒ Gained electrons      ☐ Gained neutrons
- Electric current is flow of.  
☒ Electrons      ☐ Protons      ☐ Neutrons      ☐ All these
- Which of the given is a renewable energy resources?  
☐ Wind      ☐ Flowing water      ☐ Biomass      ☒ All these
- Folic acid is chemical name of:

- ☐ Vitamin A      ☒ Vitamin B<sub>9</sub>      ☐ Vitamin C      ☐ Vitamin D  
 15. Rust is:  
☐ Sodium oxide      ☐ Copper oxide      ☐ Silver oxide      ☒ Iron oxide

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

#### SECTION-B

Marks: 36

Q2: Attempt any NINE parts. Each part carries FOUR marks.

- Define the given:  
 (a) Circuit                      (b) Open Circuit  
 (c) Closed Circuit      (d) Circuit Breakers
- Why your hair stand on ends, when you pull apart your cap.
- Write common name of the following chemicals  
 (a) Ascorbic Acid      (c) Sodium chloride  
 (c) Sodium bicarbonate      (d) Partially saturated fatty acid
- Write combustion reactions of:  
 (a) Coal                      (b) Natural gas
- Define meiosis. Write three significances of meiosis.
- Name the four types of nitrogenous bases found in DNA molecules.
- Which measures that can be taken to save precious water?
- Give a brief account of climate change on water resources.
- Write environmental effect of the following pollutants.  
 (a) Nitrogen oxide                      (b) Carbon monoxide  
 (c) Hydrocarbon                      (d) CFCs
- Define the term desertification. Write any two major reason for desertification.
- How laser is used in Microsurgery, Holography, Weapons and Textile.
- Why optical fiber is better than copper cable for telecommunication.

#### SECTION-C

Marks: 24

Note: Attempt any THREE questions. All questions carry equal marks.

- QIII: (a) Describe effects of static charges.  
 (b) What do you mean by potable water? Write two sources of fresh water.
- QIV: (a) Recognize those characteristics which indicate that a chemical reaction has taken place.  
 (b) Write uses of the given chemicals in cosmetics:  
 (i) Lead                      (ii) Phthalates
- QV: (a) Show diagrammatically different phases of mitosis.  
 (b) List down four major functions of nucleus.
- QVI: What is ENSO (El-Nino-Southern Oscillation) cycle? Explain its two phases.  
 (b) List any four future plan of SUPARCO.