

General Science (New)

10th (Fresh/Reappear)

- ۱۔ ہر سوال کے سامنے چار دائرے دیئے گئے ہیں، صرف صحیح جواب والا دائرہ بھریں۔
- 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 ہوگا۔

Time: 20 Minutes

SECTION-A

Marks: 15

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

- Ozone layer is present in.

☐ Troposphere	☐ Mesosphere
☒ Stratosphere	☐ Thermosphere
- Which of the given is air pollutants?

☐ Methane	☐ Carbon dioxide
☐ Carbon monoxide	☒ All these
- Rector scale is used to measure.

☐ Humidity	☐ Temperature
☒ Earthquake	☐ Air pollutants
- Infrasonic sound has frequency.

☐ 40KHZ to 60KHZ	☐ Higher than 20KHZ
☒ Less than 20HZ	☐ Between 0 to 30KHZ
- ECG is used in the investigation of.

☐ Brain	☒ Heart	☐ Blood flow	☐ Human anatomy
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- The number of chromosome in potato is.

☐ 46	☒ 26	☐ 48	☐ 14
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- In meiosis, cell divides and produces.

☐ 2 haploid cells	☒ 4 haploid cells
☐ 2 diploid cells	☐ 4 diploid cells
- Ribosome's are responsible of.

☐ Energy production	☒ Protein synthesis
☐ Carbohydrate synthesis	☐ Lipid formation
- Which water is basically saline in nature?

☐ River water	☐ Lake water
☒ Sea water	☐ Pond water
- Water that is safe to drink is called.

☒ Potable water	☐ Tap water
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- ☐ Distilled water ☐ Non potable water
 11. Same charges _____ each other.
☐ Attract ☒ Repel ☐ Cancel ☐ Neutralize
 12. Which of the given is renewable energy resources?
☐ Biomass ☐ Wind ☐ Sunlight ☒ All
 13. The chemical name of Vitamin B₉ is.
☐ Acetic acid ☒ Folic acid
☐ Ascorbic acid ☐ Ergocalciferol
 14. Who prepared ammonia from nitrogen and hydrogen?
☒ Fritz Haber ☐ William Henry
☐ Louis Pasteur ☐ Fleming
 15. Which among the given is the physical change?
☐ Soap making ☒ Melting of ice
☐ Rusting of iron ☐ Fermentation

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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 4 marks?

- Write any four safety measures to avoid the hazards of electricity in homes?
- What is static charge? How static charges produced repulsion?
- Write chemical names of the following compounds:

Common Name	Chemical Name
1. Vitamin-D	
2. Vitamin-C	
3. Aspirin	
4. Margarine	

- Write product of the following:
 (a) $6\text{CO}_2 + 6\text{H}_2\text{O} + \text{H}_2\text{O} \xrightarrow[\text{Chlorophyll}]{\text{Sunlight}} ? + ?$
 (b) $\text{OH}_4 + 2\text{O}_2 \longrightarrow ? + ?$
- Name four types of nitrogenous bases found in the RNA molecules?
- Define mitosis. Write three significances of mitosis?
 Which water is considered safe for human consumption? Write name of two diseases associated with contaminated water?
- Enlist various forms of water available on the earth?
- Write environmental effect of the following pollutants?

Pollutant	Environmental Effect
1. Nitrogen oxide	
2. Sulphur dioxide	
3. Carbon dioxide	
4. Halogen	

10. Write four side effects of using mobile phone?
11. Discuss the uses of laser in:
 (a) Industries (b) Holography
12. Write names of major parts of computer?

SECTION-C

Marks: 24

Q3: Attempt any THREE questions. All questions carry equal marks?

1. (a) Briefly explain resistors in parallel?
 (b) Write uses of the following compounds in cosmetics:
 (i) Triclosan (ii) Ethylene Oxide
2. (a) What are the main events occurring in prophase-I? Explain?
 (b) Write function of the following:

RNA	Function
1. Transfer RNA	
2. Ribosomal RNA	
3. Messenger RNA	

3. (a) Briefly discuss any four important measures for sustainable development of water resources in Pakistan?
 (b) Differentiate between EEG and ECG?