

Time Allowed: 3 Hrs

Note: There are Three Sections in this paper i.e. A, B and C. Attempt Section A and return it to the Superintendent within the given time. No marks will be awarded for Cutting, Erasing and Overwriting.

Mobile Phone is strictly prohibited in Examination Hall.

Time: 20 Minutes

SECTION "A"

Q.1. Choose the correct option and shade one of (A, B, C, D) in the given Bubble Answer Sheet.

- i. Everything in nature is made up of:

☐ A Atom	☐ B Element	☐ C Electron	☐ D Proton
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- ii. Air freshener is also known as:

☐ A Air picker	☐ B Air Ionizer	☐ C Air seeker	☐ D Air conditioner
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- iii. Which one rod will become positively charged when rubbed with silk?

☐ A Carbon rod	☐ B Iron rod	☐ C Glass rod	☐ D Silver rod
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- iv. What is the chemical name of vitamin B9?

☐ A Acetic acid	☐ B Fatty acid	☐ C Nitric acid	☐ D Folic acid
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- v. Hair are mainly composed of a protein called:

☐ A Keratin	☐ B Casein	☐ C Alanine	☐ D Valine
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- vi. Sodium chloride commonly known as:

☐ A Protein	☐ B Table salt	☐ C Fats	☐ D Vitamins
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- vii. The reaction of acids and bases to form water and salt is called:

☐ A Saponification	☐ B Temperature	☐ C Neutralization	☐ D Reaction
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- viii. Nucleoplasm also known as:

☐ A Cytoplasm	☐ B Nucleus	☐ C Endoplasm	☐ D Karyoplasm
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- ix. DNA is composed of chemical units known as:

☐ A Nucleotides	☐ B Adenine	☐ C Cytosine	☐ D Polypeptide
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- x. Genetic diseases are those disorders which are transmitted from parents to:

☐ A Predecessors	☐ B Offspring	☐ C Ancestral	☐ D Relatives
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- xi. In the human beings there are _____ pairs of chromosomes.

☐ A 3	☐ B 13	☐ C 23	☐ D 33
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- xii. The largest body of water on earth is:

☐ A Indian Ocean	☐ B Atlantic Ocean	☐ C Arctic Ocean	☐ D Pacific Ocean
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- xiii. How much of the current cropped area is irrigated with the help of canals?

☐ A 80%	☐ B 85%	☐ C 90%	☐ D 100%
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- xiv. Natural disasters may be in the form of:

☐ A Floods	☐ B Earthquakes	☐ C Cyclones	☐ D All of these
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- xv. The sound frequency less than 20Hz is called:

☐ A Infrasonic	☐ B Ultrasonic	☐ C X-ray	☐ D EEG
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سوال 2۔ درج ذیل میں سے نو (09) اجزاء کے جوہات مختصر تحریر کریں۔ تمام اجزاء کے نمبر وہ ہیں۔

- i. الیکٹروسٹیک انڈکشن کیا ہے؟
- ii. پاکستان میں کچرے کے ٹھکانے لگانے کا طریقہ کیا ہے؟
- iii. توانائی پیدا کرنے کے اہم ذرائع کیا ہیں؟
- iv. چار کھانے کے قابل کیمیائی مرکبات کے نام لکھیں۔
- v. کیمیائی تعاملات کی علامات کیا ہیں؟
- vi. DNA اور RNA کے درمیان تعلقات کی شناخت کریں۔
- vii. نیوکلئس کے اہم افعال کی تعریف کریں۔
- viii. زیر زمین پانی، پانی کا ایک انتہائی مفید ذریعہ ہے۔ کیوں؟
- ix. آبی ذخائر کی آلودگی کے بڑے اسباب کیا ہیں؟
- x. پاکستان میں پانی کے ذخائر کے استعمال کے تین بڑے اقدامات بتائیں۔
- xi. سوجا کس کے زیادہ استعمال کے تین نقصان دہ اثرات لکھیں۔
- xii. X-Rays کے افعال بیان کریں۔

نوٹ: درج ذیل میں سے صرف تین (3) سوالات کے جوہات تحریر کریں۔ ہر سوال کے نمبر وہ ہیں۔

- سوال 3۔ "کیمیائی فضلہ" کے پاکستان میں اثرات اور حفاظت کے تدابیر بیان کریں۔
- سوال 4۔ بی آؤس کے عمل کو تفصیل سے بیان کریں۔
- سوال 5۔ موسمیاتی تبدیلی پر ایک مضمون لکھیں۔
- سوال 6۔ "CT Scan" کے افعال اور استعمالات بیان کریں۔

GENERAL SCIENCE - 10th

SECTION "B"

Time: 2 Hours 40 Minutes

Marks: 36

Q.2. Attempt any NINE (09) questions of the following. All questions carry equal marks.

- i. What is electrostatic induction? 04
- ii. What is the method of disposal of wastes in Pakistan? 04
- iii. What are the main resources of energy generation? 04
- iv. Write the names of four edible chemical compounds. 04
- v. What are the indications of chemical reactions? 04
- vi. Identify the relationships among DNA and RNA. 04
- vii. Define the important functions of Nucleus. 04
- viii. The underground water is one of the most useful source of water. Why? 04
- ix. Describe the major reasons for the pollution of water resources. 04
- x. Give three main measures for consumption of water resources of Pakistan. 04
- xi. Write three harmful effects of excessive use of Mobiles. 04
- xii. Describe the functions of X-rays. 04

SECTION "C"

Marks: 24

Note: Attempt any THREE (03) questions of the following. All questions carry equal marks.

- Q.3. Explain the impacts and safety consequences of chemical disposal in Pakistan. 08
- Q.4. Describe the process of Meiosis in detail. 08
- Q.5. Write an essay on Climate Change. 08
- Q.6. Describe the functions and uses of CT scan. 08