PRE - PUBLIC EXAMINATIONS - MARCH 2023 **GENERAL SCIENCE - Paper I**

(Physical Science) (English Version) PART - A & B

X Class]

(Max. Marks: 40) [Time: 1.30 Hrs.

Marks: 30]

PART - A [Time: 1.15 Hrs.

General Instructions:

i) Read the question paper and understand every question thoroughly and write answers in given 1.30 hrs. time.

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- ii) 3 very short answer questions are there in Section-I. Each question carries 2 marks. Answer all the questions. Write answer to each question in 3 to 4 sentences.
- iii) 3 short answer questions are there in Section-II. Each question carries 4 marks. Answer all the questions. Write answer to each question in 5 to 6 sentences.
- iv) 3 essay type answer questions are there in Section-III. Each question carries 6 marks. Answer any Two questions. Write answer to each di tta clerace question in 8 to 10 sentences.

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Section - I

Note: i) 3 very short answer questions are there in section-I.

- ii) Answer all the questions. Each question carries 2 marks.
- iii) Write answer to each question in 3 to 4 sentences.

3x2 = 6

- Mention the applications of thermite process in our daily life? 1.
- A person is viewing an extended object. If a converging lens is 2. placed infront of his eye, will he feel that the size of object has increased? Why?
- List out the material required to verify Ohm's law? 3.

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Section - II

Note: i) 3 short answer questions are there in section-II.

- ii) Answer all the questions. Each question carries 4 marks.
- iii) Write answer to each question in 5 to 6 sentences.

3x4=12

- 4. Find the distance of the image, and height of image, when an object height 4 cm. is placed on the principle axis at a distance of 10 cm infront of a concave mirror whose radius of curvature is 8 cm.
- 5. In an atom the number of electrons in M-shell is equal to the number of electrons in the K-shell and L-shell. Answer the following questions.
 - a) Which is the outer-most shell
 - b) How many electrons are there in its outer-most shell
 - c) What is the atomic number of element
 - d) Write the electronic configuration of the element
- 6. Write the Allotropes of carbon? And write its applications in our daily life?

Section - III

Note: i) 3 essay type questions are there in this section.

- ii) Answer any 2 questions. Each question carries 6 marks.
- iii) Write answer to each question in 8 to 10 sentences. 2x6=12
- 7. Write experimental procedure of a metal react with acid. Draw a neat diagram ?

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- 8. Write the factors of Ionization energy and how it changes in groups and periods?
- 9. Draw ray diagrams for convex lens for the following positions and explain the nature and position of image?
 - i) Object is placed at C2.
 - ii) Object is placed between F2 and optic center P.

