F - 121 **FORMATIVE ASSESSMENT - I - 2023 - 24**

GENERAL SCIENCE

(English Medium)

⊖ 20

Class : X]   (Max. Marks : 20)   [Time : 45 Mins.

Name of the Student : .... Roll No. : ....

Physical Science (10 Marks)

SECTION - I   2 x 1 = 2

Note :   1) Answer all the questions.

2) Each question carries 1 mark.

1. On what factors does the refractive index of medium depends ?

2. P: Light ray passing along the principal axis is un deviated.

   Q: Light ray passing through the focus is un deviated.

   Choose the correct option and write it in your answer sheet.

   A) P,Q both are correct   B) P is correct, Q is incorrect

   C) P is incorrect, Q is correct   D) P,Q both are incorrect

SECTION - II   2 x 2 = 4

Note: 1) Answer all the questions.

2) Each question carries 2 marks.

3. a) What is the reason behind the shining of diamonds and how do you appreciate it ?

   b) Draw a ray diagram for the image formed when an object is kept at F_1 before a convex lens.

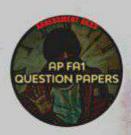### SECTION - III   1 x 4 = 4

Note :   1) Answer any ONE question.

2) Question carries 4 marks.

4. a) Suggest an experiment to prove that the rate of evaporation of a liquid depends on its surface area and vapour already present in surrounding air.

(OR)

   b) Observe the table and answer the following questions

Solution	A	B	C	D	E	F	G	H
p^H value	4	1	12	7	8	9	2	13

   i) Which solution is Neutral ?

   ii) Which solutions are strong Alkali ?

   iii) Which solutions are strong Acids ?

   iv) Which solutions are week Alkali ?

[Turn Over

Biological Science (10 Marks)
SECTION - I
2 x 1 = 2

Note :　1) Answer all the questions.

2) Each question carries 1 mark.

1. I am an enzyme. I secreted by pancreas. I act on proteins and convert them into peptones. Who am I ?

2. Name the instrument given in the picture ?

SECTION - II
2 x 2 = 4

Note:　1) Answer all the questions.

2) Each question carries 2 marks.

3. a) What happens if diaphragm is not there in the body ?

b) What food habits will you suggest to your friends to keep their digestive system healthy ?

SECTION - III
1 x 4 = 4

Note :　1) Answer any ONE question.

2) Question carries 4 marks.

4. a) How can you prove that carbon dioxide is essential for the process of photosynthesis?

(Or)

b) Write the differences between the blood vessels that carry blood to the heart and that carry blood away from the heart.