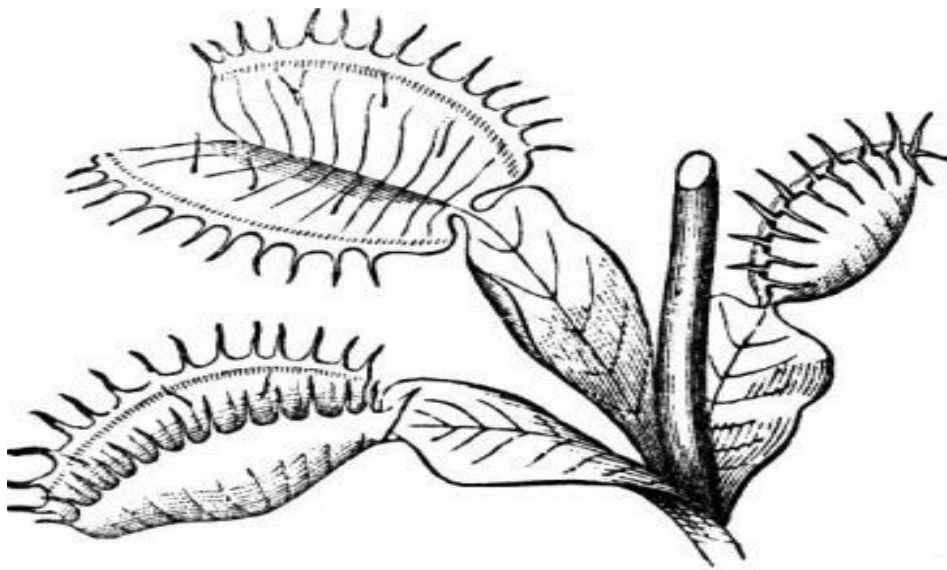


**Note: It is mandatory to write your name, surname, standard, division, roll no. and page no. on each side of the composition sheets that you are using as answer sheets.**

**Q1a) Carefully observe the diagram of a Venus fly trap given below (5marks)  
and answer the questions that follow:**



- i) Which group of plants does Venus fly trap belong to?
- ii) Why are they considered partially autotrophic in nature?
- iii) Which nutrient is deficient in the soil where Venus fly trap grows?
- iv) Why do Venus fly trap plants trap insects?
- v) Name another plant that belongs to this special group of plants which contains or bears sticky substances for trapping insects.

**Q1b) Differentiate between the following terms using only the keywords (5marks)  
given in the brackets.**

- i) Incident ray and Reflected ray (definition)
- ii) Inflammable and Non-flammable substances (ability to catch fire)
- iii) Metals and Non-Metals (lustre)
- iv) Solid and Gas (volume)
- v) Photosynthesis and Respiration (end product released)

**Q2a) Alex wants to have his favourite pickles for lunch but the metal lid of the glass jar just doesn't seem to open. Finally he decides to experiment with some hot water and he pours on the lid of the glass jar. Observe the picture carefully and answer the questions that follow: (5 marks)**



- i) What will happen to the metal lid when hot water is poured over it?
- ii) How does pouring hot water help?
- iii) What will happen if instead of hot water, cold water is poured over the metal lid?
- iv) Which property of solids finds its application in the glass jar example?
- v) Define temperature.

**Q2b) Classify the following as metals or non-metals. (5marks)**  
**(Draw a table as shown below to write your answer)**

Sodium, Oxygen, Copper, Zinc and Hydrogen

Metals	Non-metals

**Q3a) Give scientific reasons for the following: (5 marks)**

- i) A book and pen are classified as solids.
- ii) Railway tracks are laid in such a way that there is some space between them.
- iii) Sometimes we walk into a transparent glass partition.
- iv) Zebra is a herbivore.
- v) Although most of the things around us are non-luminous, we see them when light shines on them.

**Q3b) Match the following:**

**(5 marks)**

**(Write your answer as number-letter. For example: 6-g)**

**COLUMN 'A'**

1. Virtual Image
2. Parasitic plant
3. Boiling point of water
4. Real Image
5. Freezing point of water

**COLUMN 'B'**

- a) 100°C
- b) 0°C
- c) erect
- d) Indian pipe
- e) inverted
- f) Dodder