

NAME: \_\_\_\_\_ previous school attended \_\_\_\_\_

ENGLISH SECTION A (9 marks)

**A. Read the following comprehension and answer the questions: (5)**

The 'trace' gases such as water vapour, carbon dioxide, methane and nitrous oxide absorb heat. They are referred to as 'greenhouse' gases as they perform the same functions as the gases in a greenhouse. Greenhouses are used extensively to grow plants particularly in cool climates. Its transparent glass covering allows the sunrays to enter unhindered and warm the interior. It also prevents this heat from escaping by reflecting the energy back into the greenhouse.

Our atmosphere functions like a greenhouse. The sun's energy reaches the earth as visible light. 30 percent of this light is reflected back into space by clouds, snow and ice-covered land, sea surfaces and atmospheric dust. The rest is absorbed by the liquids, solids and gases that constitute our planet.

This absorbed energy is eventually re-emitted as infrared radiation which, in fact, is longer-wavelength light. Although we cannot see it, we can feel its presence just as we can feel the heat as we put our hand near the surface of a hot skillet or frying pan. The 'trace' gases that make up only a tiny fraction of the atmosphere, absorb the infrared radiation and the heat energy.

In the early 1800s, the term 'greenhouse effect' was only used to describe the naturally occurring functions of trace gases in the atmosphere. It was not until the mid 1950s that the term was coupled with the concerns over climate change. The negative concerns are related to the possible impact of an enhanced greenhouse effect; however, we must not forget that without the greenhouse effect, life on earth, as we know it, would not be possible.

**1. What are referred to as greenhouse gases? Why? (1)****2. How does the sun's energy reach the earth? (1)****3. What is the function of the 'trace' gases? (1)****4. Complete the following: (1)**

Our \_\_\_\_\_ functions like a greenhouse.

- a. The term \_\_\_\_\_ was only used to describe the naturally occurring functions of trace gases in the atmosphere.

**5. Give a suitable title to the above passage. (1)****B. Describe your favourite toy as a child in about 100 words. (2.5)**



a. \_\_\_\_\_ is the basic structural and functional unit of living organism

b. Single celled organism are called \_\_\_\_\_

c. Green plants are also known as \_\_\_\_\_.

d. Rose : shrub :: mint: \_\_\_\_\_.

**Q2. Name the following statement**

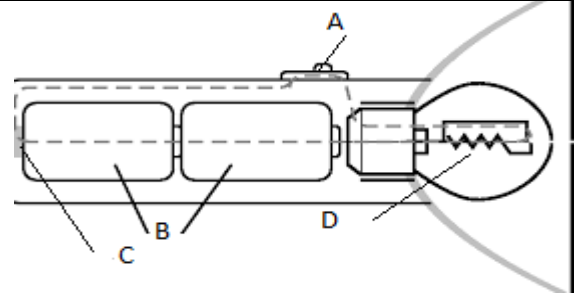
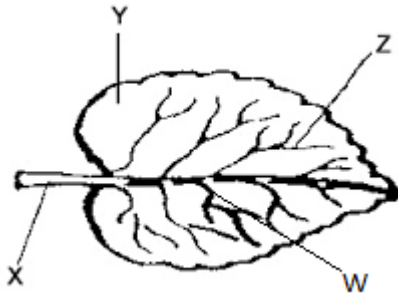
a. This happens when a lake or pond gets extra nutrients .

b. An important method to collect rainwater .

c. Blanket of air around the earth .

d. Magnets made by human using magnetic substances

**Q3. Label the following diagram and write function of their parts.**



**Q4. Answer the following question in brief.**

a. What is magnet ?

b. Give examples of two waste products produced in the bodies of human beings and plants.

**Q5. Draw the diagram of lunar eclipse.**