

**Greenlawns School, Worli**  
**Preliminary Examination: 2023-24**  
**Biology Practical**

Std: X

Marks: 20

Date: 20/12/23

Time: 1 hr

You will not be allowed to write during the first 10 min. This time is to be spent in reading the question paper and planning your work. The time given at the head of the paper is the time you are given to write the paper.

**Question 1**

Model **A** represents the human eye. Observe the parts and answer the questions that follow:

- a) Give functions of the parts 1 and 2. [2]
- b) Name the 3 layers of the eyeball. [1½]
- c) Name the transparent membrane which covers the front part of the eyeball. [½]
- d) State the role of the pupil of the eye. [1]

**Question 2**

Set-up **B** demonstrates a physiological process taking place in green plants. The whole set up was placed in bright sunlight for several hours. Study the set up and answer the questions that follow:

- a) What aspect of the physiological process is being examined? [1]
- b) What is the source of this gas? [½]
- c) Name the plant used for this experiment. [½]
- d) What will happen to the rate of bubbling of the gas if a pinch of sodium bicarbonate is added to water in the beaker? Explain with reason. [1]

**Question 3**

Observe the model **C** carefully and answer the following questions:

- a) How is the arrangement of neurons in part 1? [1]
- b) Give the functions of parts 2 and 3. [2]
- c) What structure extends below part 3? [½]
- d) Name the three protective membranes covering the brain. [1½]

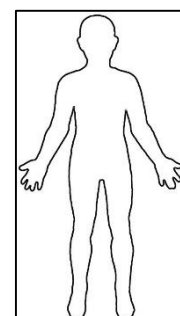
**Question 4**

Observe model **D** carefully and answer the following questions:

- a) What is the exact location of this model in the human body? [1]
- b) Name the membranous covering of the model and its function. [2]
- c) Name the blood vessel arising from 1 and the type of blood it carries. [1]
- d) Name two valves present on the left side of the heart. [1]

**Question 5**

Given below is outline of human body. Redraw the same and place the four major endocrine glands in their correct position with appropriate shape.



[2]

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