

GREENLAWNS SCHOOL, WORLI
FINAL EXAMINATION 2025-26
SCIENCE

Std: VI

Date: 16/02/2026

Marks: 80

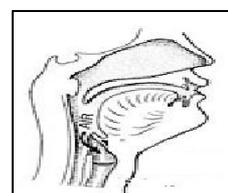
Time: 2 hours

Attempt all questions. Diagrams to be drawn with a pencil. You will not be allowed to write during the first 10 minutes. This time is to be spent in reading the Question paper.

Figures to the right indicate the marks []

Q I) Choose one correct answer to the questions from the given options: [10]

- a. Geeta's grandmother suffered from severe chest pain and was rushed to the hospital. The doctor immediately told her father that the node present in the right auricle of the heart which initiates an impulse that causes both the auricles followed by the ventricles to contract, has stopped functioning properly. Which node is the doctor talking about?
(i) S.A node (ii) Pulmonary node (iii) Tricuspid node (iv) Bicuspid node
- b. The most abundant inert gas in the air is:
(i) Krypton (ii) Neon (iii) Radon (iv) Argon
- c. Which force out of the following given below belongs to the category of contact force?
(i) Magnetic (ii) Electrostatic (iii) Frictional (iv) Gravitational
- d. The acidic nature of food coming from the stomach is changed into alkaline medium by the action of:
(i) Pancreatic juice (ii) Bile juice (iii) Intestinal juice (iv) Salivary amylase
- e. A liquid that dissolves other substances is termed as:
(i) Solution (ii) Solute (iii) Solvent (iv) Surface water
- f. The hardest substance in the body, that can get eroded by acid produced in the mouth is:
(i) Enamel (ii) Wisdom tooth (iii) Bone (iv) Cartilage
- g. One of the luminous objects given below is:
(i) Moon (ii) Sun (iii) Glass (iv) Diamond
- h. Which of the following is a step needed to be taken for controlling air pollution?
(i) Tall chimneys in factories (ii) CNG in place of fossil fuels
(iii) Growing more trees, plants in cities (iv) All of these
- i. Which of the following is not a function of a simple machine?
(i) To act as a force multiplier (ii) To decrease speed
(iii) To shift the point of application to a convenient place
(iv) To change direction of the effort applied for greater ease and comfort
- j. The opening of the trachea is guarded by:
(i) Glottis (ii) Epiglottis
(iii) Larynx (iv) Pharynx



- Q II) State whether the following statements are true or false. If false, correct the statement:** [5]
- The large reservoir of underground water obtained by digging the earth to a considerable depth is called spring water.
 - Sphygmomanometer is an instrument that helps to measure blood pressure.
 - The mechanical advantage of an inclined plane is always greater than 1.
 - Plants absorb nitric acid coming down with the rain and convert it into plant proteins.
 - Tension always acts perpendicular to the two bodies in contact.

- Q III) Fill in the blanks:** [5]
- Digestion of proteins, fats and carbohydrates is completed in _____.
 - Rectilinear propagation of light is the tendency of light to propagate along a _____ line.
 - Water saving is also known as water _____.
 - It is the _____ in the RBCs which makes it possible for the blood to act as a carrier of oxygen from lungs to the tissues.
 - _____ forces are also known as Field forces.

- Q.IV) Match the following:** [6]
- | | |
|---------------------|------------------------|
| a. ATP molecules | i. Leucocytes |
| b. Blood platelets | ii. Block and tackle |
| c. WBCs | iii. Class three lever |
| d. Pulley | iv. Energy storage |
| e. Wheelbarrow | v. Class one lever |
| f. Pair of scissors | vi. Thrombocytes |
| | vii. Class two lever |

- Q V) Define the following terms:** [5]
- | | |
|---------------|-------------------|
| a. Solubility | d. Diapedesis |
| b. Shadow | e. Global warming |
| c. Force | |

- Q VI) Choose the odd one out and name the category to which the others belong:** [4]
- Chlorination, boiling, fermentation, filtration
 - Amylase, pepsin, trypsin, lipase
 - Treading of tyres, polishing, lubrication, streamlining
 - Alveoli, bronchi, bronchioles, pharynx

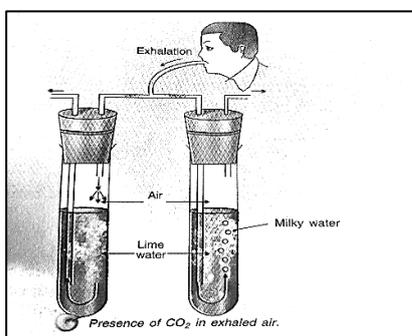
- Q VII) Distinguish between the following with reference to what is stated within brackets:** [5]
- Umbra and Penumbra (meaning)
 - Aerobic respiration and Anaerobic respiration (amount of energy released)
 - Nitrogen and Oxygen (percentage composition in air)
 - Sliding friction and Rolling friction (one example of each)
 - Systole and Diastole (phase of the heart)

Q VIII A) Sarthak visited his uncle's factory and saw the structures given below all across the field. He had the following questions in mind but didn't have enough time to ask his uncle. Help Sarthak by answering his questions given below:



- What are these structures and what are they used for? [1]
- List down two other uses of the natural resource used by this structure. [2]
- Why are the nights not as cold as they might be without air? [2]

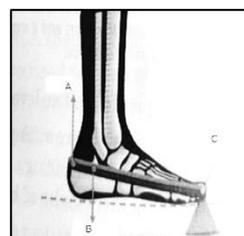
Q VIII B) Angad wanted to prove to his younger brother that exhaled air contains carbon dioxide. For that he conducted a simple experiment. His younger brother wanted to know more and hence asked Angad the following questions:



- Why has one of the lime water turned milky? [1]
- What is respiration? How is it different from breathing? [2]
- Where does cellular respiration take place? [1]

Q VIII C) Reeva raised her weight of the body on toes just to realise that it is a type of simple machine. Help her understand this type of machine by answering the below given questions:

- Which type of simple machine is it exactly? Label parts 'A' and 'B' and 'C'.
- Define mechanical advantage. State the same for this machine.
- Give three examples of a different type of simple machine that you see in your daily life.



- [2½]
[2]
[1½]

Q IX) Give scientific reasons for the following: (two reasons each) [10]

- Solar eclipse does not occur after every 28 days.
- Force of friction is sometimes referred to as a necessary evil.
- When we chew boiled potato nicely it starts tasting sweet.
- Fishes start dying in polluted water.
- There are four premolars but only two canines in each jaw of human beings.

Q XA) Answer the following questions:

- What are the functions of hydrochloric acid secreted by the stomach during digestion? [2]
- Dhani prepared a saturated solution of sugar in water. She heated the solution for some time to check its solubility and found that the same solution which was saturated before heating turned unsaturated. Can you write down what does a saturated and an unsaturated solution mean to you. [2]

- c. Mention any two characteristics of the image obtained by a pinhole camera. [2]
- d. The ground outside your classroom has become very smooth and slippery. Suggest two ways of increasing friction on that ground. [2]
- e. State how pulmonary circulation is different from systemic circulation? [2]

Q XB) Write the correct property of air against each figure shown below: [2]

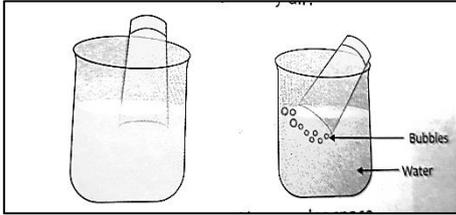


Fig i

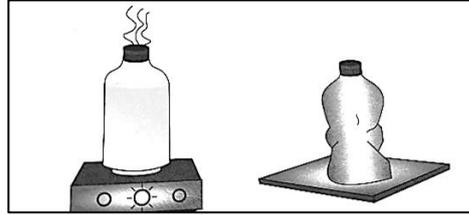


Fig ii.

Q XC) Draw a neat labelled diagram showing the gaseous exchange in the alveolus. [3]

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