

GREENLAWNS SCHOOL, WORLI
FINAL EXAMINATION – 2024
SCIENCE

Std: VI
Date: 20/02/2024

Marks: 80
Time: 2 hours

Attempt all questions. Diagrams to be drawn with a pencil.
Figures to the right indicate the marks []

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

- a. Water for chemical purposes is obtained by:
(i) Sedimentation (ii) Decantation (iii) Distillation (iv) Filtration
- b. The force of attraction developed by rubbing certain objects against each other is:
(i) Magnetic force (ii) Electrostatic force (iii) Gravitational force (iv) Friction
- c. The energy stored in the nucleus of an atom is called:
(i) Chemical energy (ii) Heat energy (iii) Muscular energy (iv) Atomic energy
- d. The measure of movement of molecules in the body refers to its:
(i) Temperature (ii) Weight (iii) Mass (iv) Volume
- e. The plant that reproduces through its leaves is:
(i) Neem (ii) Tamarind (iii) Bryophyllum (iv) Hibiscus
- f. The gas released during photosynthesis is:
(i) Helium (ii) Argon (iii) Carbon dioxide (iv) Oxygen
- g. A windlass works on the principle of:
(i) Pulley (ii) Wheel and axle (iii) Inclined plane (iv) Lever
- h. Apples and pears are examples of this type of fruit:
(i) Pomes (ii) Berries (iii) Drupes (iv) None
- i. Exhaled air contains more _____ than the inhaled air.
(i) Oxygen (ii) Carbon dioxide (iii) Nitrogen (iv) Water vapour
- j. These plants have a spongy body filled with air sacs acting as canopy on the water surface:
(i) Hydrilla (ii) Lotus (iii) Water hyacinth (iv) Water lily

Q II A) State whether the following statements are true or false. If false, correct the statement: [5]

- a. Mass of a body varies with variation in gravity.
b. Iron loses its qualities due to rusting.
c. The S.I. unit of Pressure is Newton.
d. A camel has three rows of thick eyelashes to protect its eyes from the blowing sand of the desert.
e. The dissolved minerals and gases give taste to water.

Q II B) Fill in the blanks: [5]

- a. Incorrect placing of the eye over the ruler can result in _____ error.
b. _____ is a continuous day process taking place in the presence of

sunlight.

- c. The green coloured outer whorl of the flower is called _____.
- d. Water is called the _____ solvent, as it can be used for wide applications.
- e. A dynamo converts magnetic energy and mechanical energy into _____ energy.

Q II C) Define the following scientific terms: [6]

- a. Force
- b. Volume
- c. Fertilization
- d. Dehydration
- e. Rusting
- f. Mechanical advantage

Q II D) Choose the odd one out and name the category to which the others belong: [4]

- a. Pine, fir, victoria, larch
- b. Potato, carrot, turnip, radish
- c. Nutcracker, bottle opener, wheelbarrow, forceps
- d. Hour glass, Sundial, beam balance, candle clock

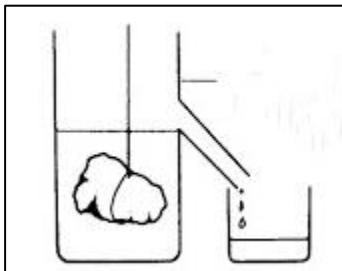
Q II E) Distinguish between the following with reference to what is stated within brackets: [5]

- a. Kinetic energy and Potential energy (meaning)
- b. Prop roots and Stilt roots (an example)
- c. Mustard leaf and Guava leaf (type of phyllotaxy)
- d. Gravitational force and Muscular force (type of force)
- e. Laboratory thermometer and Room thermometer (use)

Q.II F) Match the following: [5]

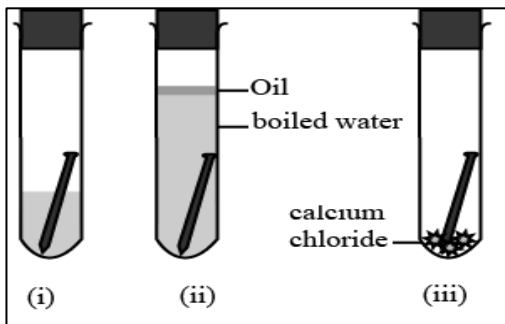
- a. Onion
- b. Ginger
- c. Argon
- d. Fahrenheit
- e. Vanda
- i. Rare gas
- ii. Temperature scale
- iii. Aerial plant
- iv. Rhizome
- v. Bulb

Q III A) With reference to the given diagram, answer the questions that follow:



- a. Name the apparatus as shown in the given picture. [1]
- b. What is it used for? [1]
- c. Explain the working of this apparatus. [2]

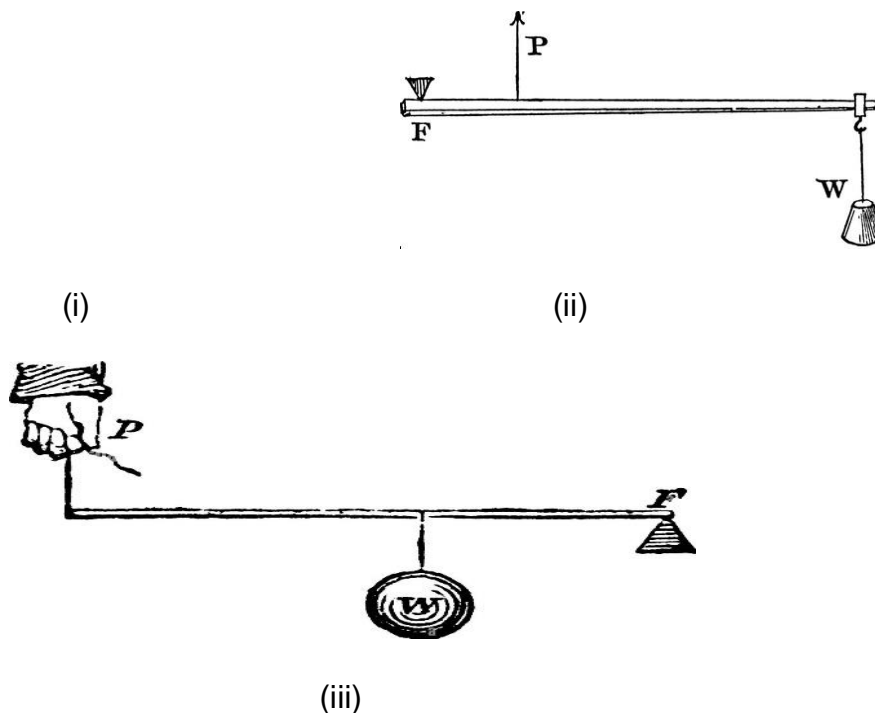
Q III B) Observe the figure given below and answer the questions that follow:



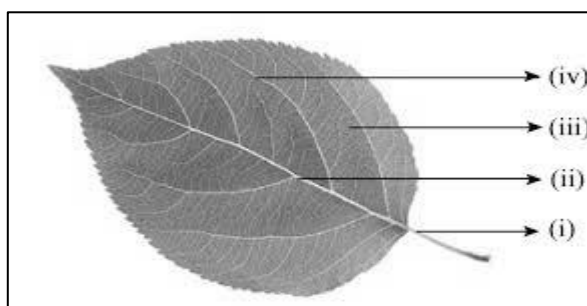
- a. Identify the phenomenon in the experiment shown. [1]
- b. What is happening in figure (i) ? [1]
- c. Is the same thing happening in the other two figures? Why? [2]
- d. What can be concluded from this experiment? [1]

Q III C) Identify the type of lever from the pictures given below: [3]





Q III D) Observe the figure given below and answer the questions that follow:



- Identify the type of leaf shown. Give two examples of this type. [2]
- Label all the parts as shown in the figure. [2]
- What is the type of venation shown in this leaf? [1]
- What is the main function of leaf? Write down word equation for the same. [2]

Q IV A) Do as directed:

- Calculate the force required to do a work of 750 Joules in moving an object through a distance of 15 m. [2]
- Convert the following: [2]
 - 37°C into Kelvin
 - 20 dm into cm
- What is the pressure exerted by a box if it exerts a force of 345 kgf of force and has dimensions 1 m \times 2.5 m. (Assume 1 kgf = 10 N) [3]

Q IV B) Answer the following questions:

- Why are leaves of cactus modified into spines? How is photosynthesis done in such plants? [2]
- How is nitrogen made available to plants? [2]
- What is water pollution? State its one cause and one method of prevention. [3]

Q IV C) Give scientific reasons for the following:

- Trees of mountain habitat are known as coniferous trees. [1]
- The entire plant body of hydrilla is covered by mucilage. [1]
- A clinical thermometer is marked from 35°C to 42°C . [1]

Q V A) Draw a neat labelled diagram to show that transpiration takes place in plants. [2]

Q V B) Redraw the given figure and label the given parts. [2]

