

GREENLAWNS HIGH SCHOOL

STD- VII SUBJECT- SCIENCE DURATION- 2 HOURS
MARKS-80 TERMINAL EXAMINATION DATE- 01-10-2025

Q1) MULTIPLE CHOICE QUESTIONS: (10M)

1. Beam balance or electronic balance is used to determine the _____ of an object.
 - a. Density
 - b. Mass
 - c. Quality
 - d. Structure
2. _____ is a form of energy.
 - a. Work
 - b. Capacity
 - c. Quantity
 - d. Displacement
3. A substance will exist in the liquid state only below its _____ point.
 - a. Condensation
 - b. Freezing
 - c. Boiling
 - d. Melting
4. The opening and closing of stomata is regulated by_____.
 - a. Leaf
 - b. Stem
 - c. Guard cell
 - d. Air

5. _____ energy is produced when an object is made to vibrate.

- Sound
- Heat
- Light
- Potential

6. An _____ is the smallest possible unit of matter that exist all the properties of that matter.

- Compound
- Mixture
- Atom
- None of these

7. The symbol Mg is for the element _____

- Maganese
- Magnetite
- Magnesium
- None of these

8. SI unit of volume is _____

- m^2
- m
- m^3
- cm^3

9. The Kinetic energy in _____ is less as compared to liquids.

- Gas
- Solids
- Fluids
- All of the above

10. _____ can be separated by physical methods as the constituent elements are not chemically combined.

- a. Compounds
- b. Atoms
- c. Molecules
- d. Mixtures

Q2) TRUE OR FALSE, IF FALSE, CORRECT THE UNDERLINED WORD. (6m)

1. Gases can be compressed into a smaller volume by increasing the pressure acting on them.
2. Any amount of energy spent produces an equivalent amount of work.
3. Meristematic tissue acts as a parent tissue from which other tissues develop.
4. Energy stored in compressed spring is kinetic energy.
5. Carbon dioxide released by plants is converted to oxygen which is used by animals during digestion.
6. The space between the molecule is called central space.

Q3) MATCH THE COLUMNS:(6m)

A	B
1. Sclerenchyma	a) Homogeneous mixture
2. Pure substances.	b) Cannot be compressed
3. Solid	c) Dead cells and devoid of protoplasm
4. Alloy	d) Helps to purify air
5. Photosynthesis	e) Capacity to do work
6. Energy	f) Same kind of particles

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Q4) NAME THE FOLLOWING:(5m)

1. Energy stored in the bonds of chemical compounds.
2. The term used to describe the Number of atoms present within the molecule of an element.
3. A microscopic opening that helps in the process of transpiration and is present on the surface of the leaf.
4. The green pigment present in the cells of a leaf.
5. Phenomenon where solids vaporise without melting.

Q5) ANSWER IN ONE SENTENCES: (10m)

1. What is the range of the sound energy for humans?
2. In which light the rate of photosynthesis is minimum?
3. Sum of potential energy plus kinetic energy is called as?
4. Which compound is formed when one atom of carbon and two atoms of oxygen combine together?
5. Which type of meristematic tissue is responsible for elongation in plants?
6. In which process 1% of water absorbed by the root is utilised?
7. Which complex tissue contains dead vascular and mechanical tissue?
8. What is the symbol of the element Helium?
9. In aquatic plants, Parenchyma cells that contain large air cavities are called as?
10. State of matter that do not flow.

Q6) GIVE REASONS: (5m)

1. Work is a scalar quantity.
2. Insufficient water affects the process of photosynthesis.
3. Incandescent lights are inefficient.
4. Stomata closes in warmer environment and dry air.
5. Gases have neither definite shape nor definite volume.

Q7) DEFINE:(5)

1. Photosynthesis
2. Density
3. Volume
4. Heat energy
5. Element

Q8) DIFFERENTIATE BETWEEN:(5m)

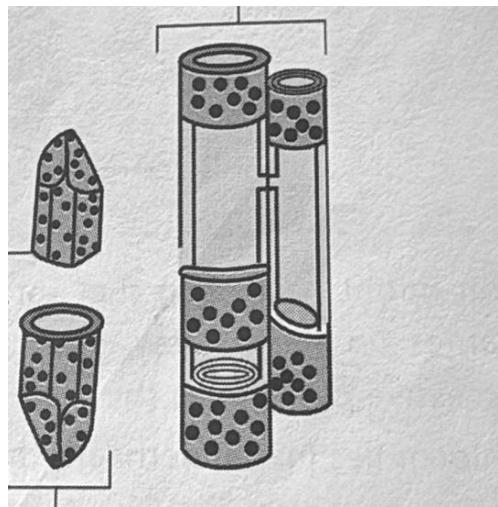
1. Xylem and phloem (w.r.t its function for transportation)
2. Electrical and solar energy (w.r.t definition)
3. Homogeneous and heterogeneous mixtures (w.r.t settling of constituents)
4. Intercalary meristems and lateral meristems (w.r.t function)
5. Solid and gas (w.r.t shape and hardness)

Q9) IDENTIFY THE MARKED STATE CONVERSION: (5m)



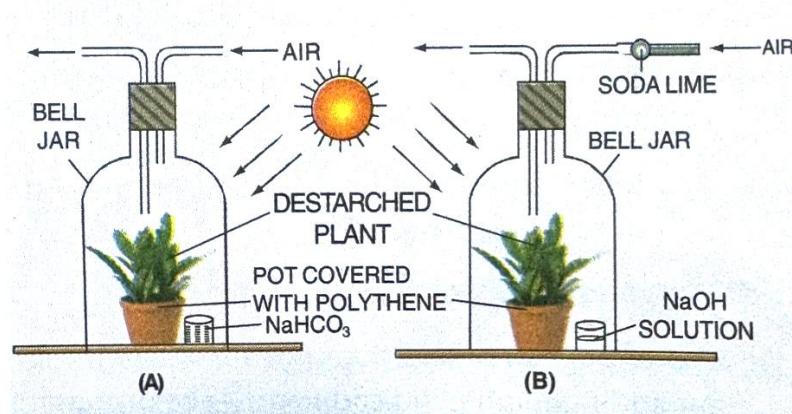
- 1) The melting point of water is _____
- 2) A=_____, B=_____, C=_____, D=_____.

Q10) LABEL THE DIAGRAM GIVEN BELOW: (3M)



Q11) PICTURE STUDY: (3m)

The following picture shows plant A and plant B.



- 1) Gas produced by NaHCO₃ is _____
- 2) _____ is used to seal the bottom of the jars and make it airtight.
- 3) Why starch test is not positive in case of plant B?

Q12) ANSWER THE FOLLOWING: (17m)

- 1) Which type of Simple permanent tissue is abundantly found in all organs of plants? What is the cell wall made up of? State one function. (3)
- 2) Write any three properties of matter. (3)
- 3) Write any three factors affecting photosynthesis. (3)
- 4) State the interconversion of the energy in the below examples: (4)
 - a) Swinging of a pendulum b) Electric bell
 - c) Microphone d) Cooking gas.
- 5) a) A train runs with a constant speed of 240kmph. How long will it take to travel a distance of 1920 kilometers? (4)
b) Calculate the mass of a liquid with a density of 2.2 g ml⁻¹ and volume of 32 ml.

