#### **GREENLAWNS SCHOOL, WORLI**

### TERMINAL EXAMINATION - 2024 SCIENCE

Std: V	II	Marks: 80			
Date:0	3/10/2024	Time: 2 hours			
	-	•	ns to be drawn with a	a pencil.	
0 1\ 01		gures to the right in			
-	oose one correct answer to the questions from the given options: [10] The maximum volume of a liquid that can be stored in a container is called its:				
	(i) Volume	(ii) Capacity	(iii) Velocity	(iv) Acceleration	
b.	Allergic rhinitis is (i) Mites	s caused due to : (ii) Dust	(iii) Sunlight	(iv) Pollen grains	
C.	The Latin name (i) Argentum	of gold is: (ii) Ferrum	(iii) Aurum	(iv) Kalium	
d.	Brownian motion (i) Solids	and diffusion are fa (ii) Liquids	astest in: (iii) Gases	(iv) Same in all	
e.	Which of the folloof compounds: (i) Atomicity	owing helps significa	antly in the derivation (iii) Mass number	n of chemical formula  (iv) None	
f.	Allergens such a (i) Skin Allergy			d detergents cause: (iv) Food Allergy	
g.	Comma shaped (i) Bacilli	bacteria are termed (ii) Vibrio	as: (iii) Spirilla	(iv) Cocci	
h.		across the floor	of potential energy (ii) A stretched rub (iv) Playing the gu	ber band	
i.	The scientist to propose the five-king (i) R.H Whittaker (iii) Dmitri Mendeleev		dom classification of living organisms is: (ii) Carolus Linnaeus (iv) John Dalton		
j.	A mixture of ammonium chloride and s (i) Chromatography (iii) Sublimation		sand can be separated by: (ii) Separating funnel (iv) Centrifugation		

# Q II A) State whether the following statements are true or false. If false, rewrite the correct statement by changing the underlined word / words: [5]

- a. Mycorrhiza is a mutually beneficial relationship between plant roots and some <u>bacteria</u>.
- b. Acceleration is a scalar quantity.

d. The S.I unit of weight is kilograms. e. Maglev trains float slightly above their tracks using magnetic repulsion. Q II B) Fill in the blanks: [4] a. Algae are simple plants characterized by an undifferentiated plant body is the transfer of heat due to the actual movement of b. particles as a result of temperature difference. c. The meniscus of water inside a measuring cylinder is concave while that of mercury will be \_\_\_\_\_. d. \_\_\_\_\_ is a common allergic reaction that is often hereditary. Q II C) Match the following: [5] a. Cohesive force i. Outward force due to rotation a. Cohesive force
b. Random motion
c. Fronds
d. Centrifugal force
e. Rhizoids
i. Outward force due to ii. Liverworts and mos iii. Movement of house iv. Inter-particle force v. Leaves of ferns ii. Liverworts and mosses iii. Movement of housefly Q II D) Complete the correlation: [5] a. Radical: highly reactive :: Molecule: \_\_ b. Euglena: flagellum:: \_\_\_\_\_: cilia c. Freezing: melting ::Evaporation: d. Chlorine: monovalent :: Oxygen: e. Distance: \_\_\_\_\_ :: Speed : Velocity Q II E) Define the following terms: [4] a. Ignition temperature c. Valence electrons b. Distillation d. Allergen Q II F) Give two examples each of: [5] a. Cone-bearing plants b. Diseases caused by bacteria c. Multiple motion d. Polyatomic elements e. Fungi used in medicinal and commercial products Q III A) Give scientific reasons for the following: [4] a. Priva travels 30 km in first hour and 10 km in the second hour but her average speed turns out to be 20 km/h. b. When hot water is poured into a glass tumbler, it cracks. c. Milk and tea are mixtures although they appear to be pure substances. d. Euglena is a unique protist. Q III B) Solve the following numericals: a. A copper piece of mass 179.2 g is immersed in water in a measuring cylinder. The level of water rises from 40 ml to 60 ml. Find the density of copper. [2]

c. The water molecules produce two radicals: hydroxyl ion (OH<sup>-</sup>) and

hydronium ion (H<sub>3</sub>O<sup>+</sup>).

- b. The maximum temperature on a summer day in a city was 104°F. Convert this temperature into Celsius scale and Kelvin scale.
- [3]

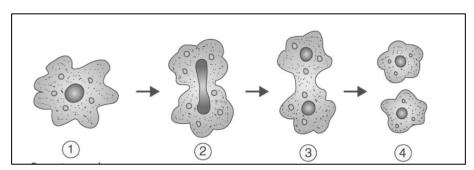
c. Classify the following as elements or compounds:

[2]

Sr.	Name	Element/ Compound
No.		
1.	Sodium nitrate	a.
2.	Magnesium chloride	b.
3.	Nitrogen	C.
4.	Zinc sulphide	d.

## Q.IV) Answer the following diagram-based questions:

A) Observe the process shown in amoeba given below and answer the questions that follow:

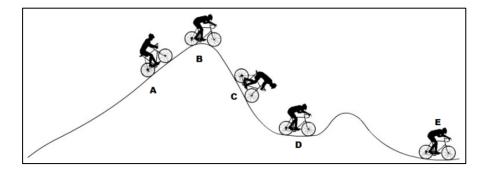


- a. Name the method of reproduction shown in the above diagram.
- [1]

b. Discuss the method of division in brief.

- [2]
- c. Is there any other way of reproduction in amoeba? If yes, name the method and state under what conditions does that happen?
- [2]

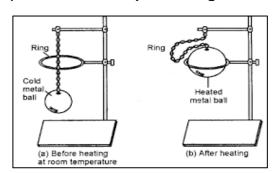
# B) The picture given below depicts a bicycle rider travelling similar to that of a roller coaster. Give reasons for the following:



a. Total energy in the ride remains constant.

- [1]
- b. Potential energy of the rider is maximum at point B and zero at point E.
- c. The rider gains kinetic energy at point D and loses its potential energy.
- [1] [1]

### C) Observe the experiment given below and answer the questions that follow:

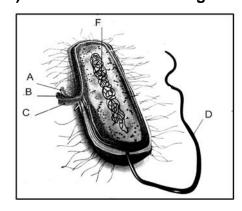


- a. What do you conclude from the experiment? [1]
- b. Give an example of this experiment that finds its application in daily life.

[1]

#### QV) Do as directed:

### A) Observe the structure given below and answer the questions that follow:



- a. Which cell is shown in the given diagram? Label the parts 'A', 'B', and 'C'. [4]
- b. List any one function of parts 'A' and 'D'? [2]
- c. Discuss the importance of part 'F' and state what is the cell type based on this part.

[2]

[4]

B) Complete the table by writing the chemical formula of the following compounds:

Sr. No.	Name	Chemical formula
1.	Calcium carbonate	a)
2.	Ammonium hydroxide	b)
3.	Potash	c)
4.	Baking Soda	d)

#### Q VI A) Answer the following questions:

- a. What is a Periodic Table? Mention the number of vertical columns and the horizontal rows in a periodic table and what are they called. [3]
- b. How is heat loss by convection, conduction and radiation (all three) prevented in a Vacuum flask? [2]
- c. Explain the principle on which a Separating funnel works. Discuss the structure and use of the apparatus in brief. [2]

#### Q VI B) Draw a neat labelled diagram of the fungus Rhizopus. [2]