FIRST MID TERM TEST - 2024		
Stan	dard X	Reg.No.
SCIENCE		
Time: 1.30 hrs	art - I	Marks : 50
 Choose the correct answer: The unit of 'g' is ms⁻². it can be also example a) cms⁻¹ Power of lens is -4D, then it's focal lens a) 4 m 1 mole of any substance contains 	c) Nm ² Kg ⁻¹ ngth is c) -0.25 m molecules.	$d) cm^{2} s^{-2}$ $d) -2.5 m$
 a) 6.023 x 10²³ b) 6.023 x 10⁻²³ 4. Neon shows zero electron affinity due a) stable arrangement of neutrons c) reduced size 5. Oxygen is produced at what point durin a) when ATP is connected to ADP c) when H₂O is splitted 6. In Leech locomotion is performed by a) Anterior sucker 	b) stable configura d) Increased dens	ations of electrons sity
 c) Setae 7. Atrioventricular bundle was discovered a) William Harvey c) Edward Jenner 8. The wall of human heart is made of a) endocardium b) epicardium 	b) His d) None of the abo	d Relaxation of muscles ove
 9. In Reflex action, the reflex arc is formed a) brain, spinal cord, muscle c) muscle, receptor, brain 10. The eye defect "Presbyopia" can be convex lens b) concave lens 	b) receptor, muscl d) receptor, spinal rected by c) convex mirror	e, spinal cord cord, muscle
II. Answer any 5 questions. (Q.No.18 is 11. Define Inertia. Give its classification. 12. State Snell's Law. 13. Differentiate Convex lens and Concave 14. Give any two examples for hetero diator 15. Why should the light dependent reaction 16. State whether the statements are True (i) Anaerobic respiration produces mor ii) Plant lose mater by the process of the statements are the concess of the	lens. mic molecules. n occur before the ligher False. (Correct the	nt independent reaction?

X Science . 2 17. Fill in the blanks. i) Water enters into the root hair cell through ___ membrane. ii) _____ is the longest cell in our body. 18. Calculate the velocity of a moving body of mass 5 kg whose linear momentum is 2.5 kg ms⁻¹. Part - III 4 x 4 = 16 III. Answer briefly any 4 questions. (Q.No.25 is compulsory) 19. List out any five properties of light. 20. A is a silvery white metal. A combines with O2 to form B at 800°C. a) The alloy of A is used in making the aircraft. Find A and B. b) what is Rust? 21. Match the following: a) 1. Amphicribal - Dracaena - Fern 2. Cambium Amphi Vasal - Secondary growth - Conduction of water 4. Xylem b) Why is the Sinoatrial node called the pacemaker of heart? 22. i) Draw the structure of neuron and label the parts. (2 marks) ii) Write the reaction of photosynthesis. 23. Enumerate the functions of blood. 24. Differentiate between Aerobic and Anaerobic respiration. 25. Calculate the number of moles in i) 27 g of Al ii) 1.5 x 10²³ molecules of NH_ACI Part - IV IV. Answer in detailed. $2 \times 7 = 14$ 26. Deduce the equation of a force using Newton's second law of motion. (OR) i) Give the salient features of modern atomic theory. (5 marks) ii) Assertion and Reason - (2 marks) Assertion : An uncleaned copper vessel is covered with greenish layer. Reason : Copper is not attacked by Alkali a) A is wrong, R is correct b) A and R are correct, R does not explain A 27. Describe and name three stages of cellular respiration that aerobic organisms use to obtain energy from glucose. (OR) List out the parasitic adaptations in Leech. (5 marks) ii) Define 'Reflex arc'