FIRST MID TERM TEST - 2024

,	· · · · ·	Per No
	Standard X	Reg No
SCIENCE		
Time : 1.30 hrs	Part - I	Marks : 50
I. Choose the correct answ		10 x 1 = 10
1 The unit of 'g' is ms ⁻² , it can	n be also expressed as	
a) cms ⁻¹ b) Nkg	g ⁻¹ c) Nm ² Kg ⁻¹	d) cm ² s ⁻²
2. Power of lens is -4D, then i	it's focal length is	
a) 4 m b) -40) m c) =0.25 m	d) -2.5 m
3 1 mole of any substance co	ntains molecules.	d) 12.046 x 10 ²³
a) 6.023 x 10 ²³ b) 6.02	23 x 10 ⁻²³ c) 3.0115 x 10 ²³	3 (a) 12.046 x 10.5
4 Neon shows zero electron a	affinity due to	urations of electrons
 a) stable arrangement of n 		gurations of electrons
c) reduced size	d) Increased de	
5. Oxygen is produced at what	t point during photosynthesis to ADP b) when CO_2 is	: s.fixed
a) when ATP is connected	d) all of these	J.I.A.G
c) when H_2O is splitted In Leech locomotion is perfo		
a) Anterior sucker	B) Paraboola	
c) Setae	d) Contraction	and Relaxation of muscles
Atrioventricular bundle was	discovered by	
a) William Harvey	. b) His	
c) Edward Jenner	d) None of the	e above
. The wall of human heart is r	made of	
a) endocardium b) epic	cardium c) myocardiui	m d) all the above
In Reflex action, the reflex a	arc is formed by	
		nuscle, spinal cord
a) brain, spinal cord, musc		pinal cord, muscle
c) muscle, receptor, brain		
The eye defect "Presbyopia	Call be collected by	rror d) bifocal lenses
 a) convex lens b) con 	cave lens c) convex mi	2, 5
	Part - II	5x2=1
. Answer any 5 questions.	(Q.No.18 is compulsory)	3,2-2
. Define Inertia. Give its class	sification.	
State Snell's Law.		
Differentiate Convex lens a	nd Concave lens.	
Give any two examples for		
Give any two examples for	deather action accus before	the light independent reaction
Why should the light depen-	dent reaction occur belove	the light independent reaction at the following statement)
State whether the statements are True or False. (Correct the false statement)		
 i) Anaerobic respiration produces more ATP than Aerobic respiration. 		
	process of transpiration.	
ii) (a) (a) (a) (a) (a) (b) (b) (b) (c) (c)		

2 X Science 17 Fill in the blanks 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 - Iff II. Answer briefly any 4 questions. (Q.No.25 is compulsory) List out any five properties of light). 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? Match the following Dracaena Amphicribal a) 1. Fern 2. Cambium Secondary growth 3. Amphi Vasal Conduction of water Xylem b) Why is the Sinoatrial node called the pacemaker of heart? Draw the structure of neuron and label the parts. (2 marks) ii) Write the reaction of photosynthesis Enumerate the functions of blood. Differentiate between Aerobic and Anaerobic respiration Calculate the number of moles in ii) 1.5 x 10²³ molecules of NH₄CI 27 g of Al Part - IV $2 \times 7 =$ Answer in detailed. Deduce the equation of a force using Newton's second law of motion. (OR) 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. Copper is not attacked by Alkali Reason a) A is wrong, R is correct b) A and R are correct, R does not explain A Describe and name three stages of cellular respiration that aerobic organisms us obtain energy from glucose. (OR) List out the parasitic adaptations in Leech. (5 marks) Define 'Reflex arc'