FIRST MID TERM TEST - 2024

	\$	Standard	X	Reg.No.		
		SCIENC	E			
Time	e : 1.30 hrs	Part - I		Marks: 50		
1.	Choose the correct answer:	, 411,		10 x 1 = 10		
1.	The unit of 'g' is ms-2, it can be a	lso express	ed as	10 x 1 - 10		
	a) cms ⁻¹ b) N kg ⁻¹	c)	Nm ² Ka ⁻¹	d) $cm^2 s^{-2}$		
2.	Power of lens is -4D, then it's foo	al length is				
	a) 4 m b) -40 m	(c)	-0.25 m	d) -2.5 m		
3.	1 mole of any substance contains	ιε	molecules.			
	a) 6.023 x 10 ²³ b) 6.023 x 1	0 ⁻²³ c)	3.0115×10^{23}	d) 12.046×10^{23}		
4.	Neon shows zero electron affinity	due to	<u> </u>			
	a) stable arrangement of neutro		stable configura	ations of electrons		
_	c) reduced size	_ d)	Increased dens	sity		
5.	Oxygen is produced at what poin					
	a) when ATP is connected to AE		when CO2 is fix	red ·		
•	c) when H ₂ O is splitted	d)	all of these			
б.	In Leech locomotion is performed	d by	- :			
	a) Anterior sucker		Parapodia			
7	c) Setae	(d)	Contraction and	d Relaxation of muscles		
1.	Atrioventricular bundle was disco	_				
	a) William Harvey		His			
	c) Edward Jenner		None of the abo	ove		
σ.	The wall of human heart is made					
,	a) endocardium b) epicardiu		myocardium	d) all the above,		
9.	In Reflex action, the reflex arc is					
	a) brain, spinal cord, muscle	b)	receptor, musc	le, spinal cord		
40	c) muscle, receptor, brain	d)	receptor, spina	il cord, muscle		
10.	The eye defect "Presbyopia" can	be correct	ed by			
	a) convex lens b) concave			d) bifocal lenses		
Part - II						
11.	Answer any 5 questions. (Q.No	.18 is com	pulsory)	5 x 2 = 10		
	Define Inertia. Give its classificat	ion.				
	State Snell's Law.					
	3. Differentiate Convex lens and Concave lens.					
	Give any two examples for hetero diatomic molecules.					
15.	Why should the light dependent reaction occur before the light independent reaction?					
16.	State whether the statements are	True or Fa	alse. (Correct th	ne false statement)		
	 Anaerobic respiration product 	es more Al	P than Aerobic	respiration.		
	ii) Plant lose mater by the proce	ess of trans	piration.	Α		

	2	X Science				
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 r	nomentum ie				
	2.5 kg ms ⁻¹ .	nomentum is				
	Part - III					
m.	Answer briefly any 4 questions. (Q.No.25 is compulsory)	4 x 4 = 16				
	List out any five properties of light.					
20.	A is a silvery white metal. A combines with O ₂ 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					
~	2. Cambium - Fern					
	Amphi Vasal - Secondary growth					
	Xylem - Conduction of water					
	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.	fferentiate between Aerobic and Anaerobic respiration.				
25.	Calculate the number of moles in					
	i) "27 g of Al "ii) 1.5 x 10 ²³ molecules of NH ₄ Cl					
	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)					
٠,	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	ı 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 orga	anisms use to				
	obtain energy from glucose					
	(OR)					
	i) List out the parasitic adaptations in Leech. (5 marks)					
	ii) Define 'Reflex arc'					

	高表示 型器					