TRICHY

COMMON FIRST MID - TERM TEST - 2019

OCIMINAL INTO 1 MID - 151/14 1521 - 2019					
	STAND	ARD - X	Reg.No.		
	Time: 1.30 hours SCI	ENCE		Marks: 5	
SECTION - I					
	T Chance the best answers				
	1. The unit of 'g' is ms ⁻² . It can be also expressed as				
	a) cms ⁻¹ b) Nkg ⁻¹		d) cm ² s ⁻²		
	2. The gram molecular mass of oxygen m		a) em s		
	a) 16g b) 18g	c) 32g	d) 17g		
	3. Which of the following is a triatomic molecule?				
	a) Glucose b) Helium		d) Hydroge	n	
	4. Kreb's cycle takes place in		,,		
	a) Chloroplast b) Mitochondrial matrix				
	c) Stomata d) inner Mitochondrial Membrane		ne ·		
	5. The body of leech has				
	a) 23 segments b) 33 segments	c) 38 segments	d) 30 segm	ents	
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II. Fill in the blanks: 5×1=5					
6. The path of the light is called as					
7 and are called inner transition elements.					
8. Structures in roots that help to absorb water are					
9 carries the impulse towards the cell body.					
10. The part of human brain which acts as relay center is					
SECTION - II					
	III. Answer any ten questions: 10×2=20 11. Differentiate mass and weight.				
12. If a 10N and a 25N forces are acting opposite to one another. Find the resultant force and the direction of action of the resultant force.					
13. State Snell's law.					
14. Why are traffic signals red in colour?					
15. Give any two examples for heterodiatomic molecules.					
	16. Find the percentage of nitrogen in ammonia.				
	17. Assertion and Reason :				
	Assertion : The nature of bond in HF moelcule is ionic.				
	Reason : The electronegativity difference between H and F is 1.9.				
1	i) A and R are correct, R explains the A ii) A is wrong, R is correct				
	III) A I	iv) A and R are correct,		plain's A	
18	A is a silvery white metal. A combines with O ₂ to form B at 800°C, the alloy of A is				
			., .,	,	

used in making the aircraft. Find A and B.

- 19. Draw and label the structure of Oxysomes.
- 20. State whether the statements are true or False. Correct the false statement:
- 21. Write the dental formula of rabbit.
- 22. Match the following:

Organ - Location

a) Brain - abdominal cavity

b) Kidney - mediastinum

c) Heart - enclosed in thoracic cavity

d) Lungs - cranial cavity

- Trace the pathway followed by water molecules from the time it enters a plant root to the time it escapes into the atmosphere from a leaf.
- 24. The complete events of cardiac cycle last for 0.8 sec. What is the timing for each event?
- 25. Define reflex arc.

SECTION - III

IV. Answer any four questions by choosing one question from each part: $4 \times 5 = 20$ PART - A

- 26. a) State and prove the law of conservation of linear momentum. (OR)
 - b) List any five properties of light.

PART - B

- 27. a) Give the salient features of "Modern atomic theory". (OR)
 - b) The electronic configuration of metal A is 2, 8, 18, 1. The metal A when exposed to air and moisture forms B a green layered compound. A with con.H₂SO₄ forms C and D along with water. D is a gaseous compound. Find A, B, C and D.
- 28. a) Differentiate the following:
 - i) Monocot root and Dicot root
 - ii) Aerobic and Anaerobic respiration

(OR)

- b) How to plants absorb water? Explain.
- 29. a) Explain the male reproductive system of rabbit with a labelled diagram. (OR)
 - b) Our body contains a large number of cells 'L' which are the longest cells in the body. L has long and short branch called as 'M' and 'N' respectively. There is a gap 'O' between two 'L' cells, through which nerve impulse transfer by release of chemical substance 'P'.
 - i) Name the cells L

ii) What are M and N?

iii) What is the gap O?

iv) Name the chemical substance P