

## COMMON FIRST MID - TERM TEST - 2019

Time: 1.30 hours	STANDARD - X SCIENCE	Reg.No. Marks: 50
	SECTION - I	iosalai.Org
I. Choose the best answer:		5×1=5
1. The unit of 'g' is ms <sup>-2</sup> . It can		
a) cms <sup>-1</sup> b) Nkg <sup>-1</sup>		d) cm <sup>2</sup> s <sup>-2</sup>
2. The gram molecular mass of		idasalai.
a) 16g b) 18g		d) 17g
3. Which of the following is a tr	iatomic molecule?	
4. Kreb's cycle takes place in	c) Carbon dioxide	d) Hydrogen
a) Chloroplast	b) Mitochondrial m	atrix
c) Stomata  5. The body of leech has	d) inner Mitochond	
	ments c) 38 segments	d) 30 segments
II. Fill in the blanks:	MM.	5×1=5
6. The path of the light is called	asalai O19	alai Org Sal-S
7 and are calle		dasa
8. Structures in roots that help t		
9 carries the impulse tow		
10. The part of human brain which	h acts as relay center is	-asalal.
NW Pau		P.S.
	SECTION - II	
III. Answer any ten questions:	121.019	10×2=20
11. Differentiate mass and weight		dasar
12. If a 10N and a 25N forces are	acting opposite to one anoth	er. Find the resultant
force and the direction of action 3. State Snell's law.	on of the resultant force.	010
4. Why are traffic signals red in c	olour? Assalai.	
5. Give any two examples for het		
6. Find the percentage of nitroger		
7. Assertion and Reason :	019	1019
Assertion : The nature of bond	in HF moelcule is ionic	
Reason : The electronegativi		is 1.9.
i) A and R are correct, R explai	ns the A ii) A is wrong R is co	orrect
ili) A is correct, R is wrong	iv) A and R are correct	
8. A is a silvery white metal. A cor		
used in making the aircraft. Fir	d A and B.	Mund

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X - Science

- 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
- 23. 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.H<sub>2</sub>SO<sub>4</sub> 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