~	OMMON	EIDST	MALE	TEDM	TEST	2022
u		FIRST	MIID.	- I E K W	IESI	- 2023

		Standard	X Reg	.No.:		Ш					
		SCIENCE	E								
Tim	ne: 1.30 hrs.	Part - I			Ma	rks: 50					
1.	Choose the correct answer	er:			. 7	x 1 = 7					
1.	Plotting a graph for momentum on the y-axis and time on x-axis slope of										
	momentum-time graph give	S			M						
	a) Impulsive force	b)	acceleration								
	c) force	d)	rate of force								
2	A convex lens from a real, diminished point sized image at focus. Then the										
	position of the object is at			10119							
	a) focus	b)	infinity								
	c) at 2f	d)	between f and	2f							
3.	Which of the following is a triatomic molecule?										
	a) glucose	-,	helium								
	 c) carbon dioxide 	d)	hydrogen								
4	Which group consists noble	_	7421	5 7 6 33	C 19						
	a) 14 b) 15	c)	17	d) 18	3						
5	Kerb's cycle takes place in	1000 1000		-0.50							
	a) chloroplast	(b)	mitochondrial r								
	c) stomata	d)	inner mitochon	drial men	nbrane)					
6.	The segments of leech are l										
	a) metamers	(b)	proglottids								
	c) strobila	d)	all the above								
7.	. 'Heart of heart' is called		A) (d -								
	a) SA node		AV node								
	c) purkinje fibers	d)	bundle of His								
	the state of the s	Part - II	nulean)		E.u	2 = 10					
II. Answer any 5 questions: (Q.No.15 is compulsory) 8. Define inertia. Give its classification."											
8											
9											
10											
11											
12	Who discovered Rh factor? Why was it named so?										
	14. What are the structures involved in the protection of brain?										
15	the second second second by a property language the object										
10	is placed between F and 2F.				,						
	to braced postroom, and ar-										

(2)

X Science

Part - III

III. Answer any 3 questions. (Q.No.20 is compulsory)

 $3 \times 4 = 12$

- Describe rocket propulsion.
- Differentiate convex lens and concave lens.
- 18. a) How is diastema formed in rabbit?
 - b) List out the parasitic adaptations in leech.
- 19. a) Match the following:
 - i) Missil's granules

Fore brain

ii) Hypothalamus

Peripheral nervous system

iii) Cerebellum

Cyton

iv) Schwann cell

Hind brain

- b) Give an example for conditioned reflexes.
- 21. Calculate the number of moles in
 - i) 27 g of Al
 - ii) 1.51 x 10²³ molecules of NH₄CI

Part - IV

IV. Answer all the questions.

 $3 \times 7 = 21$

- 21, a) i) Classify the types of force based on their application.
 - ii) Deduce the equation of a force using Newton's second law of motion.

(OR)

- b) i) List any five properties of light.
 - ii) State Snell's law.
- 22. a) i) Derive relationship between Relative molecular mass and Vapour density.
 - ii) Define: Atomicity

(OR)

- b) i) A is a reddish brown metal, which combines with O₂ at <1370K gives B, a black coloured compound. At a temperature >1370K, A gives C which is red colour. Find A, B and C with reaction.
 - ii) What is Amalgam?
- 23. a) i) Differentiate monocot root and dicot root.
 - ii) Give an account on vascular bundle of dicot stem.

(OR)

b) What is Transpiration? Give the importance of transpiration.
