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## UNIT TEST - 1, JULY - 2024

Time Allowed: 1.30 Hours]

## SCIENCE

[Max. Marks: 50

PART - I

I.	Choose	the best ans	wer.				9x1= 9
1.	Inertia of	a body depen	ds on				
	a) Weig	ht of the object	t		b)	Acceleration due	e to gravity of the planet
	c) Mass	of the object			d)	Both a and b	
2.	In which o	of the following	g spoi	rt the burning effec	ct of f	orce used.	
	(a) Swim	ming	(b)	Tennis	(c)	Cycling	d) Hockey
3.	Power of I	Lens is - 4D th	nen it	s Focal Length is			
	(a) 4m		(b)	-40m	(c)	-0.25m	(d)-2.5m
4	Mass of 1	mole Nitroger	n Ator	n is			
	(a) 28 am	u	(b)	14 amu	(c)	25 g	(d) 14 g
5.	The volum	e occupied by	y 1 m	ole of Diatomic ga	as at	S.T.P is	
	(a) 11.2 Li	tre	(b)	5.6 Litre	(c)	22.4 Litre	(d) 44.8 Litre
6.	Kreb's Cyc	le takes place	e in				
	(a) Chloro	plast			(b)	Mitochondrial Ma	atrix
-	(c) Stomat	a			(d)	Inner Mitochond	rial Membrane
7. 1	The body o	f Leech has					
(	a) 23 Seg	ments	(b)	33 Segments	(c)	38 Segments	(d) 30 Segments
. F	haryngeal	Ganglion in I	eech	is a part of			
(:	a) Excreto	ry System			(b)	Nervous System	n
(	c) Reprodu	uctive System	n			Respiratory Sys	
		re		als.	(-/		
	) Cold Blo			Warm Blooded	(c)	Poikilothormia	(d) All about
(-	, 00.0 2.0		(5)			Pokilothermic	(d) All the above
۸.		faur of the	£-11-	PART -			
				wing questions	. (Q.1	No.15 is compu	lsory) 4x2=8
		n's Second L					
Sa	y True or	False of the	Sta	tement. If false	give	the correct sta	atement.
a)	Molar ma	iss of CO2 is	42 g				
b)	Noble gas	ses are diato	mic.				CH/10/Sci/1
							1

12. Name the three basic Tissue System in Flowering Plants. 13. Write the Dental Formula of Rabbit. 14. Draw and label the Structure of Oxysome. 15. Draw a ray diagram to show the image formed by a convex lens when the object is placed between F and 2F. PART - III 3x4=12 III. Answer any three of the following. (Q.No.20 is compulsory) 16. Differentiate Mass and Weight. 17. List any Four properties of Light. 18. Differentiate Monocot Root and Dicot Root. 19. List out the Parasitic adaptation of Leech. 20. Calculate the number of Moles in a) 27 g of Al b) 1.51 x 10<sup>23</sup> molecules of NH<sub>4</sub>Cl PART - IV 3x7 = 21IV. Note: Answer in detail. What are the types of Inertia. 21. a) i) State and Prove the Law of Conservation of Linear Momentum. ii) (OR) Differentiate the eye defects of Myopia and Hypermetropia. i) b) Why does the sky appear in blue colour? ii) Give the Salient features of "Modern Atomic Theory". 22. a) i) Define: Atomicity. ii) (OR) What is rust? Give the equation for the formation of rust. i) b) Write different methods of preventing corrosion. ii) Explain the structure of Chloroplast. 23. a) i) Write the reaction for photosynthesis. ii) (OR)

What does CNS stands for?

Why is the Teeth of Rabbit called Heterodont?

CH/10/S

How does locomotion takes place in leech?

b) i)

ii)

iii)