10 - Std

## FIRST MID TERM TEST - 2022

SCIENCE

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Time: 1.30 Hrs

Marks: 50

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		PART - I		
I.	Choose the correct answer.	12 X 1 = 12		
1.	One kilogram force equals to			
	(a) 9.8 dyne	(b) 9.8 × 10 <sup>4</sup> N		
-	(c) 98 × 10 <sup>4</sup> dyne	(d) 980 dyne.		
2.	P. Steer Cité LOCKER MUICH OF	the following principle(s) is / (are) required?		
	(a) Newton's third law of motion	on (b) Newton's law of gravitation		
2	(C) law of conservation of linea	r momentum (d) both a and c.		
3.	A convex lens forms a real, dim	inished point sized image at focus. Then the		
	position of the object is at:			
	(a) focus	(b) infinity		
	(c) at 2f	(d) between f and 2f		
4.	. Freezyopia car	be corrected by:		
	(a) convex lens	(b) concave lens		
	(c) convex mirror	(d) Bi focal lenses		
5. Which of the following is a triatomic molecule?				
	(a) Glucose	(b) Helium		
	(c) Carbon dioxide	(d) Hydrogen.		
6.	The volume occupied by 4.4 g	of CO <sub>2</sub> at S.T.P:		
	(a) 22.4 litre	(b) 2.24 litre		
	(c) 0.24 litre /	(d) 0.1 litre		
7.	group contains the mem	ber of the halogen family.		
	(a) 17 <sup>th</sup> (b) 15 <sup>th</sup>	(c) 18th (d) 16th		
3.	is an important metal to	form amalgam.		
	(a) Ag (b) Hg	(c) Mg (d) Al		
9.	The endarch condition is the ch			
		(c) leaves (d) flower.		
0.	Kreb's cycle takes place in			
	(a) chloroplast	(b) mitochondrial matrix		
	(c) stomata	(d) inner mitochondrial membrane.		
1.	The segments of leech are known			
	(a) Metameres (somites)	(b) Proglottids		
		(d) All the above.		
2.	The animals which give birth to	young ones are		
	(a) Oviparous	(b) Viviparous		
	(c) Ovoviviparous	(d) All the above.		
	The state of the s			

II Answer any 4 questions. Question number 18 is compute 13. How does an astronaut float in a space shuttle?  14. Give any two examples for heteroatomic molecules.  15. True or False: (If false give the correct statement)  a) Moseley's periodic table is based on atomic mass.  b) Ionic radius increases across the period from left to right.	sory. 4 x 2 = 8
16. Match the following.  a) Amphicribal - i) Dracaena b) Cambium - ii) Conduction of water c) Amphivasal - iii) Fern d) Xylem - iv) Secondary growth 17. Write the dental formula of rabbit. 18. Draw a ray diagram to show the image formed by a conversion object is placed between F and 2F.	ex lens when the
PART - III	
<ul> <li>19. Differentiate mass and weight.</li> <li>20. a) What is refractive index?</li> <li>b) Why are traffic signals red in colour?</li> <li>21. Write any four features of Periods.</li> </ul>	sory. 4 x 4 = 16
processy iteresis and where in a cell goes it occur?	
23. List out the parasitic adaptations in the leech. 24. $N_2 + 3 H_2> 2 NH_3$	
(The atomic mass of nitrogen is 14, and that of hydrogen is 1 1 mole of nitrogen (g) + 3 moles of hydrogen (g)>	)
2 moles of ammonia (g)	
PART - IV	
V Answer all the questions.  5. a) i) Define inertia. Give its classification.  ii) Describe rocket propulsion.	2 x 7 = 14

(OR)

b) i) List any five properties of light?

ii) Define dispersion of light.

26. a) i) Give the salient features of "Modern atomic theory".

ii) What is an alloy?

b) i) Name the three basic - tissues systems in flowering plants.

ii) Explain the male reproductive system of rabbit with a labelled diagram.

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