FIRST MID TERM MODEL QUESTION PAPER - 2023

Class : X	SCIENCE	Total mark: 75M
I .Choose the best cori	ect answer	(12 x 1= 12 m)
 One kilogram for a) 9.8 dyne b) The unit of weig a) Kg m b) kg Mean value of tha) 10.1 m/s² In which of the fa) Swimming b To produce a disable force b) ma 	rce equal to 9.8 x 10 ⁴ N c) 98 x 10 ⁴ dyne	d) 980 dyne s e of above ffect of force used ? y
a) + b) - c) + 7. The eye defect " a) Convex lens 8helps in tran a) Stomato 9. Mammals are a) Coled blood 10.The brain of leed a) Mouth b) I 11.PNS is formed of a) 10 b) 12	or _ d) 0 presbyopia" can be corrected b) concave lens c) convex m spiration b) Epidermis c) Trichomes animals b) warm blood c) poikilother th lies above the	nirror d) bifocal lenses d) Root hairs mic d) All the above op
a) Endocardiu	m b) Epicardium c) unicelli	ular d) both b and c
II.Answer any SEVEN C	Questions Q. NO .22 is compuls	fory $(7 \times 2 = 14 \text{ m})$
13.What is inertia 14.State Newton's s 15.Write the types 16.What is refractiv	of forces	

- 17. Why are traffic signals red in color?
- 18. What is the common steps in aerobin and anaerobic pathway
- 19. How does leech respire?
- 20.What is cohesion?
- 21. Why are the rings of cartilages found in trachea of rabbi?
- 22.A ball of mass 1 kg moving with a speed of 10 m/s rebounds after a perfect elastic collision with the floor. Calculate the change in linear momentum of the ball
- III. Answer any SEVEN Questions Q.NO. 32 is compulsory.

(7x 4 = 28m)

- 23. Differentiate mass and weight
- 24. Define impulse
- 25. Define Linear momentum
- 26. State Rayleigh's law of scattering
- 27. state snell's law
- 28. Differentiate convex lens and concave lens
- 29. What is respiratory quotient?
- 30. Write a short note on mesophyll
- 31. What causes the opening and closing of guard cells of stomato during transpiration?
- 32 What is transpiration? give the importance of transpiration

Answer ALL Questions

 $(3 \times 7 = 21m)$

33 a) List any SEVEN properties of light

(or)

- b) An object is placed at a distance 20cm from a convex lens of focal length 10cm find the image distance and nature of the image
- 34 a) State and prove the laws of conservation of linear momentum

(or)

b)Write a note on vascular tissue system 35a) How do plants absorb water? Explain

(or)

b)Draw a transverse section of Dicot leaf label the parts

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