FIRST REVISION TEST I MODEL TEST 2 SCIENCE

TOTAL MARKS: 75 DURATION: 2.5 hr

RA	TION: 2.5 hr		Class: 10)
Ch	oose the most suitable answer a	and wr	rite the code with the corresponding answer: 12x1=12	
4	Inantia of body donoudo on			
Ί.	Inertia of body depends on		acceleration due to available of the wheret	
	a) weight of the body	c)	· · · · · · · · · · · · · · · · · · ·	
^	b) mass of the object	a)	both a and b	
2.		,		
	a) For a body is at rest		for a body in motion	
_	b) Both a & b	a)	only for bodies with equal masses	
3.	One kilogram force equals is		0.0 \(\tau \tau \tau \tau \tau \tau \tau \tau	
	a) 9.8 dyne	,	9.8 X 10 ⁴ N	
	b) 9.8 X 10 ⁴ dyne	,	980 dyne	
4.	The refractive index of four substances A,B,C and D are 1.31,1.43,1.33,2.4 respectively. The			
	speed of light is maximum in		_	
	a) A	c) l		
	b) C	d)		
5.	, , , , ,			
	a) Convex lens	,	concave lens	
	b) Convex mirror	d)	bi focal lens	
6.	Where should an object be placed so that a real and inverted image of same size is obtained by			
	convex lens			
	a) f	c) 2	2f	
	b) infinity	ď)	between f and 2f	
.	Which of the following is a triat	tomic	molecule?	
	a) Glucose		Helium	
	b) Carbon dioxide	,	Hydrogen	
8.	Mass of 1 mole of nitrogen ator	,	. •	
	a) 28 amu		14 amu	
	b) 28 g	,	14 g	
9.	Which of the following has the smallest mass?			
	a) 6.023 X 10 ²³ atoms of He			
	b) 2 g of He	,	1 mole atoms of He	
10	. Casparian strips are present in	,		
. •	a) Cortex		pith	
	b) Pericycle		endodermis	
11	. Kreb's cycle take place in	u) ·	Chadannia	
' '	a) Chloroplast	c) :	mitochondria matrix	
	b) Stomata		inner mitochondrial membrane	
12.	The endarch condition is the cl	,		
	a) Root		stem	
	b) Leaves	,	flower	
	uj Leaves	u)	IIOMOI	

II Answer any 7 questions (Q.No.22 is compulsory)

7X2=14

- 13. What are chloroplast and write the functions of chloroplast?
- 14. Draw the overview of Hill and Calvin cycle?
- 15. Define respiratory quotient?
- 16. Write the applications of concave lens?
- 17. Define atomicity?
- 18. Match the following:

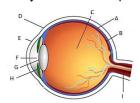
8 g of O₂ - 4 moles
4 g of H₂ - 0.25 moles
52 g of He - 2 moles
35.5 g of Cl₂ - 0.5 moles

- 19. Define dispersion of light?
- 20. Write the functions of epidermal tissue system?
- 21. Differentiate mass and weight?
- 22. If a 5 N and 15 N forces are acting opposite to one another. Find the resultant force and the direction of the resultant force?

III Answer any 7 questions (Q.No.32 is compulsory)

7X4=28

- 23. Define inertia. Give its classification?
- 24. Two bodies have a mass ratio 3:4. The force applied on the bigger mass produces an acceleration of 12ms. What could be the acceleration of the other body, if the same force acts on it?
- 25. Explain the rules for obtaining images formed by a convex lens with the help of a ray diagram?
- 26. What are plastids and give its types?
- 27. Write the different types of isotopes of oxygen and its percentage abundance?
- 28. List the properties of light?
- 29. Define relative atomic mass?
- 30. What is photosynthesis and where in a cell does it occur?
- 31. Differentiate aerobic and anaerobic respiration?
- 32. Identify and label the parts?



IV Answer all the questions. Draw diagram wherever necessary

7X3 = 21

- 33. a) State newton's second law of motion?
 - c) Deduce the equation of a force using Newton's second law of motion

OR.

Differentiate the eye defects: Myopia and Hypermetropia.

34. Give the salient features of modern atomic theory?

- a) Differentiate atoms and molecules?
- b) Diffrentiate homoatomic and heteroatomic mole . Give one example each?
- 35. Draw and explain types of Vascular Bundles?

OR

Describe and name three stages of cellular respiration the aerobic organisms use to obtain energy from glucose ?