MODEL REVISION TEST - I SSLC – JANUARY 2022

CLASS : 10				MARKS	: 75
SUBJECT : SCIENCE				DURATION	: 2.30HRS
Note: 1. Answer all 2. Choose the answer	-	inswer and wr	ite the code	with the corres	sponding
					12X1=12
To project the rock a) Newton's third law c) Law of conservation	of motion	b) New	ton's law of	-	
2. Plotting a graph for time graph gives	momentum on	the X-axis an	d time on Y-	axis, slope of m	omentum –
a) Impulsive force b) Acceleration		eration	c) Force d) Rate		rce
3. In a myophi eye, th a) behind the retina	_	=			n the blind spot
4. A convex lens form the object is at		•	_		position of
a) focus	b) infinity	c) at 2f	d) betweer	n f and 2f	
5. A normal human ey infinity.	e can clearly se	e all the obje	cts placed be	etween	and
a) 10 cm	b) 15cm		c) 20cm	d) 2!	5cm
6. Mass of 1 mole of I a) 28 amu	Nitrogen atom is b) 14 amu	S	c) 28g	d) 14	4g
7. Which of the follow a) F2	ving is triatomic b) Co2	: molecule?	c) HI	d) C	:H4
8. Molecule exists in a a) free	a st b) combined sta		c) gaseons	d) A	ll the above
9 is formed a) Carbohydrate	_	-		d) Pyruvate	
10. Casparian strips a a) Cortex	re present in the			d) Endodermis	
11. Kreb's cycle takes a) Chloroplast b) mito				mitochondrial me	embrane
12. A man of mass 10 a) 980N	0kg has a weigh b) 9.8 N			_ at the surface d) 480 N	of the earth

Part II

Answer any SEVEN questions (Q.No 22 is compulsory)

7X2=14

- 13. State Newton's first law.
- 14. What are the causes of myopia?
- 15. Define inertia. Give its classification.
- 16. State Snell's law.
- 17. Define atomicity.
- 18. Define relative atomic mass?
- 19. Write the differences between atoms and molecules
- 20. Write any two applications of Avogadro's law.
- 21. What is Photosynthesis? Write it equation.
- 20. What is rust? Give the equation for the formation of rust.
- 22. Calculate the molecular mass of water.

Given :- Atomic weight of Hydrogen is 1. Oxygen is 16.

PART III

7 X 4 = 28

Answer any SEVEN questions

- 23. Differentiate between mass and weight
- 24. (i) What is power of accommodation of eye?
 - (ii) Distinguish between convex lens and concave lens
- 25. Calculate the velocity of moving body of mass 5kg whose linear momentum is 2.5 kgms⁻¹
- 26. In a convex lens, when object are placed between F and C draw the ray diagram and write the characteristics of image?
- 27. How does the light dependent reaction differ from the light independent reaction?
- 28. Write the different types of isotopes of oxygen and its percentage abundance?
- 29 State Avagadro's hypothesis and write its number?
- 30. What is Hypermeteropia? What is the cause of it?
- 31. Write any two stages of Aerobic respiration?
- 32. Calculate the number of moles present in 27 grams of Aluminium

PART IV 3 X 7 = 21

Answer All the questions

33. a) State and explain Newton's laws of motion

(or)

- b) Distinguish between short sight and long sight
- 34. a) Explain the concepts of "Modern Atomic theory"

(or)

- b) Calculate the molecular mass of Carbondioxide and calcium phosphate (Atomic mass :- Carbon 12, Oxygen-16, Calcium-40, Phosphorous-30)
- 35. a) Discuss the internal structure of Dicot root (Bean)

(or)

- b) i) What are the factors affecting Photosynthesis?
 - ii) Draw the structure of chloroplast