FIRST REVISION EXAMINATION - 2025

CLASS:X	SCIENCE	Re	g.No	
Time: 3.00 Hours	20121102		Marks : 75	
Instructions:	T			*
Write clearly and legibly wi allotted for the exam	thout mistakes and ov	erwriting utilising	g the maximum	time
Answers should be in your over a should be	vn style without changing	g the main core co	oncent.	•,
Use only black or blue ink per	n to write the exam.	5		, a
Draw clear diagrams wherever		7		
	PART - A			•
I Choose the correct answer	PT: 855 845			12X1=12
1. Impulse is equal to		S		
a) rate of change of mome	ntum b) r	ate of force and	time	
c) change of momentum		ate of change of		
2. The value of universal gas	constant		ω.	**************************************
a) 3.81 Jmol ¹ K ¹		c) 1.38 Jmol	¹ K ⁻¹ d) 8.31	Jmol ⁻¹ K ⁻¹
3. The frequency, which is au	dible to the human ea	r is	-, -, -, -, -, -, -, -, -, -, -, -, -, -,	4 .
		5000 kHz	d) 10000 kHz	
4 isotope is used for			-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•
the state of the s	Radio Cobalt c) Ra		d) Radio Nicke	اد
5. The gram molecular mass	of oxygen molecule is		-,	
		2 g	d) 17 g	
6. Chemical formula of rust is			M F	POOVARASAN M.SC
a) FeO x H₂O b)	FeO ₄ x H ₂ O c) F	e ₂ O ₃ x H ₂ O	d) FeO	PG Asst in Chemist
7. Identify the non-aqueous s				Dharmapuri distric
a) Sodium chloride in wate	r b) Glucose i	in water		H *
c) Copper sulphate in water		n carbon di sulph	nide	(5)
8. "Heart of heart" is called	20 March 150 -			1
a) SA node b) AV no	de c) Purkinje	fibres d) Bu	andle of His	
9. The normal pH of human b			•	
a) 7.4 b) 7	c) 7.2	d) 7.1		
10. Okazaki fragments are joi	ined together by	<u> </u>		•
		NA primer	d) DNA ligase	
11. World "No Tobacco Day" i		**		
a) May 31 b) June 6	c) A	pril 22 .	d) October 2	
12. Which is used to edit prog	grams?		36	
a) Ink scape b) Script	t editor c) S	Stage	d) Sprite	•
	PART - B	• **		a 2
II Answer any 7 questions.		mpulsory	**************************************	7X2=14
13. What is refractive index?	,			
14. State Ohm's law.			5 .	· .
15. Write the different types o	fisatones of ovugen a	and its percented	no abundanas	
To time the different types of	i loctopes of oxygen a	ind its perceritat		- SciencePage-1
70000	5.50 a section	THE RESERVE OF THE RE	. 10-010	CONTINUE TI AUCT

- 16. Differentiate reversible and irreversible reactions.
- 17. Write a short note on Mesophyll.
- 18. What are the structures involved in the Protection of brain.
- 19. What are allosomes?
- 20. What is Co-efficient of Cubical expansion?
- 21. What is Scratch?
- 22. Calculate the amount of energy released when a radioactive substance undergoes fusion and results in a mass defect of 2kg.

PART - C

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

7x4=20

- 23. a) State Joule's law of heating.
 - b) An alloy of nickel and chromium is used as the heating element, why?
- 24. List any four properties of light.
- 25. a) Write any two features of natural and artificial radioactivity.
 - b) Give any two uses of radio isotopes in the field of agriculture.
- 26. How does pH play in important role in Everyday life?
- 27, a) What is respiratory quotient?
 - b) What is bolting? How can it be included artificially?
- 28. Define Ethno botany and write its importance.
- 29. a) Write the characteristics of insect pollinated flowers.
 - b) What do you understand by the term Phenotype and Genotype?
- 30. What Precautions can be taken for preventing heart diseases?
- 31. What is called homologous series? Give any three of its characteristics?
- 32. Calculate the % of sulphur in H,SO4.

PART - D

IV Answer all the questions.

3x7=21

- 33. a) State Newton's laws of motion?
 - b) The value of Avogadro number _____ [OR]
 - a) What do you understand by the term ultrasonic vibration?
 - b) State three uses of ultrasonic vibrations.
 - c) Name three animals which can hear ultrasonic vibrations.
- 34. a) Explain the mechanism of cleansing action of soap.
 - b) Write the structural formula for the following compounds.
 - a) Propane
- b) Benzene

[OR]

- a) What is a chemical equilibrium? What are the characteristics?
- b) Define Combination reaction.
- 35. Why are Leucocytes classified as granulocytes and agranulocytes? Name each cell and mention its functions.

 [OR]

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 - a) What are the consequences of soil erosion.

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b) Name the types of stem cells.

c) Which organism is considered to be the fossil bird?

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