## FIRST REVISION TEST - 2024

Standard - X	A STEPPEN	11000
	5	D
SCIENCE		В
	2 00 hrs	2

Part - I

Marks:75

12x1=12

Time: 3.0 2) Choose the most appropriate answer from the given four alternatives Note: 1) Answer all the questions. and write the option code and the corresponding answer.

	and write the option code and		4.4	
	Newton's III law is applicable	b) for a body in motion		
	If a substance is heated or cooled, the c	c) zero	d) none of the above	
3.	Kilowatt hour is the unit of	c) Electrical Energy	d) electrical power	
4.	Which of the following is a trials.	c) Carbon dioxide	d) Hydrogen	
· 5.	. a · L at the following is the different		d) Alcohol of ethanol.	
6.	Rectified spirit is an aqueous solution	c) 55.5%	d) 45.5%	
7.	Which is formed during anaerobic responsible to the hydrotes h) Ethyl alcohol	c) Acetyl CoA	d) Pyruvate	
	Heart of heart is called	c) Purkinje fibres	d) Bundle of HIS	
9.	Which one is referred as Waster Clarid	c) Thyroid gland	d) Adrenal gland me.	
10	The Centromere is found at the Centro	a) Cub Mota centric	d) Aero centric	
	The Miracle rice which saved millions of a) IR 8 b) IR 24	c) Atomita 2	d) Ponni	
. 12	A = in substictible resources is	c) Wild life	d) all the above	

Part - II Note: Answer any 7 of the following. Q.No. 22 is compulsory

7x2=14

- 13. Differentiate Mass and Weight.
- 14. What is refractive index?
- 15. State Boyle's law?
- 16. Define atomicity?
- 17. List out the Parasitic adaptations in Leech?
- 18. Name the parts of the hind Brain?
- 19. Write the characterestics of the insect pollinated flowers?
- 20. Give the name of Wheat variety having higher dietry fibre and Protein?
- 21. Write a short note on editor and its main parts?
- 22. Calculate the amount of energy released when a radioactive substance undergoes fusion and results in a mass defect on 2kg?

## Part III

## Note: Answer any 7 of the following. Q.No. 32 is compulsory

7x4 = 28

23. State Newton's law of Motion? 24. Differentiate the eye defect; Myopia, and Hyper Metropia?

25. a) Name three animals which can hear Ultrasonic Vibrations.

b) What is the audible range of frequency?

26. a) What is rust? Give the equation for rustification?

b) State two conditions necessary for rusting of Iron?

27. What is called homologus series? Give any three of its characterestics?

28. a) What is photosynthesis and where in a cell does it occur?

b) What is respiratory Quotient?

29. Enumerate the functions of blood?

30. How will you prevent soil errossion?

31. Explain the structure of chromosomes?

a) 45gm of sugar in 180gm of water, Calculate the Mass Percentage of the solute? 32. A solution is prepared by disolving

b) Calculate the PH of 0.01M HHO<sub>3</sub>?

## Part IV

# Note: Answer all the questions. Draw a diagram wherever necessary.

3x7=21

33. a) i) What is meant by electric current?

iii) Which Instrument is used to Measure the electric current? How should it be connected in a circuit?

b) i) Compare the properties of alpha, beta, Gamma radiations?

ii) Give the functions of control rods in a Nuclear reactor?

34. a) i) Write the diffrent types of Isotopes of oxygen and it Percentage?

ii) Calculate the percentage of Sulphur in H<sub>2</sub>SO<sub>4</sub>. iii) In what way hygroscopic substances differ from deliquescent substances.

b) i) Explain the types of double displacement reactions with examples.

ii) Differentiate reversible and Inreversible reactions?

iii Arrive at systematically the IUPAC name of the compound CH, CH, CH, OH

i) What is parthirocaspic fruits? Give an example.

ii) Why are thyroid Hormones refered as personality hormones?

iii) Natural selection is the driving force for evolution why?

b) i) Differentiate between outbreeding and inbreeding?

ii) Suggest measures to overcome the problem of an alcoholic.