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QUESTION PAPER

FIRST REVISION TEST - 2025

Standard - X Marks:75 SCIENCE Time: 3.00 hrs Note: The Question Paper contains four parts. 12X1=12 I. Answer all the Questions: The eye defect Presbyopia can be corrected by (d) Bifocal Lenses c) Convex mirror a) Convex Lens b) Cancave Lens 2. Which of the following is correct a) Rate of change of charge is Electrical power (b)Rate of change of charge is current. c) Rate of change of energy is current. d) Rate of change of current is charge 3. Proton - proton chain reaction is an example of c) Nuclear fusion d) B-decay a) Nuclear fission b) α-decay 4. Which of the following has the smallest mass? a) 6.023 x 1023 atoms of He (b)1 atom of He c) 2g of He d) 1 mole atom of He Deliguence is due to _ (a) strong affinity to water b) Less affinity to water d) Inertness to water c) strong hatred to water 2Co,+3H,O is a 6. C,H,OH+3O, _ a) Reduction of ethonal (b) Combustion of ethanol c) Oxidation of ethanoic acid d) Oxidation of ethanal

7. The pharyngeal ganglion is leech is a part of

a) Excretory system
c) Reproductive system
d) Respiratory system

8. Nerve cells do not possess.

a) neurilemma B Sarcolemma c) axon d) dendrites

9. Which one of the following is an IUCD?

(a) Copper - T b) Oral pills c) Diaphragam d) Tubectomy
10. Paleontologists deal with

a) Embryological evidences
b) fossil evidence
c) Vestigial organ evidences
d) All the above

11. Polyphagia is a condition seen in _____

a) obesity b) Diabetes mellitus c) AIDS d) Diabetes insipidus

12. Which is used to edit programs?

a) Inkscape D Script editor c) stage d) sprite

Part - II

7x2=14

II. Note: Answer any seven Questions. (Question 22 is compulsory)

13. State the principle of moments.

14. Distinguish between ideal gas and real gas.

15. Why does an empty vessel produce more sound than a filled one?

16. Give any three uses of aluminium?

(2)	X Science
17. True or false (If false give the correct statement)	
Silver metal can displace hydrogen gas from nitric acid.	
18. Draw and label the structure of Oxysomes.	C.C. Smit of
10. What is the role of parathormone?	de tale
20. Distinguish between somatic gene Therapy and germ line gene theraphy:	
21 What are the agents of soil erosion?	221+4(16)
(2) Calculation of molecular mass H.SO, = 2(H)+1(S)+4(O) = 2(1)+1(3-5// (0.5
Part III = 2+32+64 = 989.	7x4=28
21. What are the agents of soil erosion? 22. Calculation of molecular mass H ₂ SO ₄ = 2(H)+1(S)+ 4(O) = 2(1)+1(D) Part III = 2+32+64 = 989. III. Note: Answer seven Questions. (Question 32 is compulsory)	
23. a) What is power of accomodation of eye?	17.7/V . 3.
h) Fill in the blanks	1
i) To produce a displacement is required.	
ii) The temperature and heat are quantities.	
24. Differentiate the eye defects: Myopia and Hypermetropia.	76 H
25. a) What are the medical application of echo?	
b) What is steller energy?	
26. Give the salient features of "Modern Atomic theory".	
27. a) Define volume percentage?	
b) What is called homologous series?	
28. Enumerate the function of Blood?	
29. a) Match the following:	
1) Nissil's granules - forebrain	
2) Hypothalamus - Peripheral Nervous System	
3) Cerebellum - Cyton	
4) Schwann cell - Hind brain	71. 77
b) Define triple fusion.	
30. How do you differentiate homologous organs from analogous organs?	
31. a) Expand the following abbreviations.	
i) NIDDM ii) BARC	
b) What is bolting? How can it be induced artificially?	on Electric
Calculate the current and the resistance of a 100w, 200v electric bulb in	an Electric
circuit. $I = P/V = 100 \text{ W} / 200 \text{ M} = 0.5 \text{ A}$.	
R = V/I = 200V/0,5A = 400 Part IV	3x7=21
IV. Note: Answer all the Question. Draw diagram wherever necessary:	(OR)
33. i) a) Describe the rocket propulsion. b) Define one calorie?	(OK)
ii) a) Explain the process of controlled and uncontrolled chain reaction?	elicovity
b) Name three animals, which can hear ultrasonic vibration.	
34. i) a) How does PH play an important role in everyday life?	uation (OP)
b) How is ethanonic acid prepared from ethanol give the chemical equal to the chemical equal equal to the chemical equal	la couption
ii) a) What happens when MgSO.7H ₂ O is heated? Write the appropriate	d Atomic Make
(b) Calculate the number of moles in 27g of Al. Mole = (Gring Male 35 i) a) How does I ocomotion takes place in Leech? = 279/27	- 1 mole
35 i) a) How does Locomotion takes place in Leech?	111010
b) Where does photo synthesis occur?	\ \ \
CI VIIIC HICHOLD OF A CYTICION CONTRACT	OR)
ii) a) Discuss the importance of biotechnology in the field of medicine (an	y tour points)
b) What are okazaki fragments?	
c) Blood cancer is called	