Reg.No.

COMMON SECOND REVISION TEST - 2023

	Standard X	Reg.No.
	SCIENCE	
Time: 2.30 hrs I. Choose the correct answer: 1. Newton's III law is applicable	Part - I	Marks: 75 12 x 1 = 12
a) for a body is at rest	b) for a body in	motion
c) both (a) and (b)		LOUIS CONTRACTOR OF THE PROPERTY OF THE PROPER
Temperature is the average a) difference in K.E and P.E c) difference in T.E and P.E	of the molecules of b) sum P.E and	a substance.
2 The valority of sound in air at	d) difference in	K.E and T.E
 The velocity of sound in air at value when temperature is dou 	bled as the acceptance	is 330 ms., what will be its
a) 330 ms ⁻¹ b) 330 × v 4. The chief ore of iron is	2 ms ⁻¹ c) 165 ms ⁻¹	d) $\frac{320}{\sqrt{2}}$ ms ⁻¹
a) haematite b) copper	Dyrites c) magnetite	d) bauxite
5. Identify the non-aqueous solution		
a) sodium chloride in water	b) glucose in v	vater
c) copper sulphate in water		arbon-di-sulphide
6. The molecular formula of ethan	ol	
a) CH ₃ COOH b) CH ₃ CH 7. Casparian strips are present in	O c) CH,CH,OH	d) CH ₃ -O-CH ₃
7. Casparian strips are present in	the of the root.	
a) conex b) pericycl	e o) pith	a) endodermis
A patient with blood group 'O' v		
group of blood should be used		
a) 'O' group b) AB grou	ip c) A or B group	d) all blood group
9. Node of ranvier is found in		
a) muscles b) axons	c) dentrites	d) cyton
). Thyroid gland requires	of lodine everyday for the	e production of thyroxine.
a) 110 μg b) 100 μg	c) 120 µg	d) 105 μg
. The units form the back	coone of the DNA.	
a) 5 carbon sugar	b) phosphate d) sugar phos	
c) nitrogenous bases	d) sugar phos	pnate
. The term ethanobotany was co	ined by	N 10 - 1 10
a) Khorana b) J.W.Ha	rsberger c) Ronald Ros	d) Hugo de Vries
	Part - II	
I. Answer any 7 questions. (Q.N	lo.22 is compulsory)	7x2=14
3. What is power of accommodati	ion of eye?	
4. Why is tungsten metal used in	bulbs, but not in fuse wi	res?
5. Say true or false. If false, corre	ct the statement.	
a) Noble gases or diatomic		
b) Molar mass of CO, is 42 g		
6. Classify the following substance	es into deliquescent hys	proscopic.
Con.sulphuric acid, copper su	lphate pentahydrate sili	ca gel, calcium chloride and
gypsum salt.		

17. Draw the structure of chloroplast and mark any 4 parts.

X Science

 $7 \times 4 = 28$

 $3 \times 7 = 21$



18. a) Give the common name of the Hirudinaria granulosa. b) Why is the teeth of rabbit called heterodont?

19. State the applications of DNA fingerprinting technique.

20. Match the following:

a) Sarcoma Stomach cancer > b) Carcinoma Excessive thurst

c) Polydipsia Excessive hunger d) Polyphagia Connective tissue cancer /

21. Fill in the blanks:

a) Chipko movement is initiated against

is a biosphere reserve in Tamilnadu. 22. If the pH of a solution is 4.5, what is its pOH?

Part - III

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

23. State Newton's Law of Motion.

24. a) Define one Roentgen

b) State Soddy and Fajan's displacement law.

25. a) Identify the bond between H and F in HF molecule. b) What property forms the basis of identification? c) How does the property vary in periods and in groups?

Explain the types of double displacement reactions with examples.

27. a) Why is the sinoatrial node called the pacemaker of heart?

Differentiate between systemic circulation and pulmonary circulation.

28. a) Name the gaseous plant hormone. Describe its three different actions in plants.

b) Which hormone is known as stress hormone in plants?

29. Write a neat labelled diagram. Describe the parts of a typical angiosperm ovule.

30. What is the importance of rainwater harvesting?

31. How do you differentiate homolgous organs from analogous organs?

32. Two resistors when connected in parallel give the resultant resistance of 2 ohm, but when connected in series the effective resistance becomes 9 ohm. Calculate the value of each resistance.

Part - IV

IV. Answer all the questions.

State and prove the law of conservation of linear momentum. (OR)

33. a) Explain the construction and working of a 'compound microscope'.

Calculate the number of moles in 34. a)

ii) 1.51 x 1023 molecules of NH,CI (OR)

How is ethanoic acid prepared from ethanol? Give the chemical equation. b)

Differentiate soaps and detergents,

Illustrate the structure and functions of brain. (OR) Changes in lifestyle is a risk factor for occurance of cardiovascular diseases. 35. a)

Can it be modified? If yes, suggest measures for prevention. b)

How does Insulin deficiency occur?

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A Svi Raja lakshmi Tuhtion (antre, but and send answerkers for its Padasalsi National).

Kindly send me your questions and answerkers for its Padasalsi National