

COMMON SECOND REVISION TEST - 2023

				Stand	ard	X Reg	I.No. :
				SCIE	NC	E	
Ti	me:	3.00 hrs.		Par	t-1.		Marks: 75
	I. C	hoose the corr	ect a	inswer:			12 x 1 = 12
1	 Power of a lens is is -4D, then its focal leng 					gth is	
	а) 4 m	b)	-40 m	c)	-0.25 m	d) -2.5 m
2		l unit of resistan					3/1. ITS T. 11/2.
	а) mho	b)	joule	c)	ohm	d) ohm meter
3		aprons a	re us	sed to protect us	from	gamma radiat	ions.
	a	lead oxide	b)	iron	c)	lead .	d) aluminium
4	The volume occupied by 4.4 g of CO, at STP						
		22;4 litre					d) 0.1 litre
5		harged particles					and the second
17	a)	atom	b)	molecule	c)	ions	d) compound
6	. B	ue Vitriol is			- 7		At the second se
	a)	CCI	b)	CaSO, 2H,O	c)	MgSO, 7H,O	d) CuSO, 5H,O
7		ho introduced p			3	3.5.0	
	a)	Darvin	b)	Daniel	c)	Lamark .	d) Sorensen
8	. In	leech locomotio	n is	performed by			
		anterior sucke			b)	setae	
	c)	parapodia		. 12 (80)	d)	contraction and	d relaxation of muscles
9	No	ode of Ranvier is	s fou	nd in			
	a)	muscles	b)	axons	c)	dendrites	d) cyton
10	Pu	sa Komal is a d	isea	se resistant varie	ety of	·	
		sugarcane					d) maize
11.	11. Where does alcohol effect immediately after drinking?						
	a)	eyes		.h.*	b)	auditory region	n-
	c)	liver			d)	central nervou	is system
12.	W	hich software is	used	to create anima			
	a)	Paint	b)	PDF	c)	MS Word	d) Scratch
				Part	- 11		122
11.	Ar	swer any 7 que	estio	ns. (Q.No.22 is	con	pulsory)	7 x 2 = 14
		fine one calorie					
14.	Sta	ate Ohm's law.					
15.	What is the audible range of frequency?						
	Define Hydrated salt.						
	Write the factors influencing the rate of a reaction.						
		tch the following		and the rate of	- 10	action.	
	1.	The second secon		CaSO, 2H,O		F: F:	1
		Gypsum		CaO			
		Deliquescence		CuSO, 5H,O			
		Hygroscopic					
	78.7	1.1474103000010	-	LAGRACITY.			

(2) X Science

- 19. Why are the rings of cartilages found in trachea of rabbit?
- 20. What are synthetic auxins? Give examples.
- 21. What are allosomes?
- 22. A sound wave has a frequency of 200 Hz and speed of 400 ms⁻¹ in a medium. Find the wavelength of the sound wave.

Part - III

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

 $7 \times 4 = 28$

- 23. Define inertia. Give its classification. .
- 24. Differentiate convex lens and concave lens.
- 25. i) What is an Echo?
 - ii) State two conditions necessary for hearing an echo.
- 26. How does pH play an important role in everyday life?
- 27. What is called homologous series? Give any three of its characteristics.
- 28. Define Ethnobotany and write its importance.
- 29. Biofortification may help in removing hidden hunger. How?
- 30. i) What are Psychotropic drugs?
 - ii) How does Insulin deficiency occur?
- 31. Enumerate the importance of forest.
- 32. The hydroxide ion concentration of a solution is 1 x 10-11 M. What is the pH of the solution?

Part - IV

IV. Answer all the questions.

 $3 \times 7 = 21$

(Draw diagrams wherever necessary)

- 33. a) i) State Snell's Law.
 - ii) List any five properties of light.

(OR)

- b) Compare the properties of Alpha, Beta and Gamma radiations.
- 34. a) Explain the factors influencing the rate of a reaction.

(OR)

- Explain the mechanism of cleansing action of soap.
- 35. a) How is the structure of DNA organised? What is the biological significance of DNA?

(OR)

b) How does rain water harvesting structures recharge groundwater?
