COMMON SECOND REVISION TEST - 2023

.9 `		Standard X		Reg.	No.	
		SCIE	NCE			
Time: 2.30 h	rs .	Dav	t-I			
I. Choose	the correct answer:	i, ai	τ-1			Marks : 75
i. Newton	'S III law is applicable					12×1=12
a) for a	body is at rest		b) for a body	in motion		
C) DOTH	(a) and (b)	-	d) only for bo	dies with e	qual mass	ses
z. remper	ature is the average	of t	he molecules o	f a substa	nce.	
a) diffe	rence in K.E and P.E		b) sum P.E ar		•	
ू हो , वामेर्	rence in T.E and P.E		d) difference	n K E and	T.E	
o. The vel	ocity of sound in air at	a particul	lar temperature	is 330 m	e-1 What	will be its
, Januar M	tien temberature 12 dol	ibled and	the pressure is	c holyod?		25 1,5
a) 330	III2-, (B) 330 A	√2 ms ⁻¹	c) 165 ms ⁻¹	d	320/5	ms-1
4. The chi	el ole of Itoh Is		•	A	/ 1/2	
- a) naei	matite b) copper	pyrites	c):magnetite~	d بينيمس) bauxite	
5. Identity	the non-aqueous soluti	on.				
	um chloride in water		b) glucose in		•	8.00
6 The me	per sulphate in water		g) sulphur in c	carbon-di-s	ulphide	
0. THE HID	lecular formula of ethar	JOI	. 6			
7 Caspari	COOH b) CH ₃ CH		ELH CH OH	l d) CH ₃ -O-	-CH₃
	an strips are present in		of the root.	A STATE OF		1 116
a) corte	-,		c) pith	<u>(d</u>	endoder	mis
o. A patier	nt with blood group 'O'	was injure	ed in an accide	nt and has	s blood los	ss. Which
alonb o	f blood should be used	by acctor	tor transfusion			po su
a) 'O' g	roup b) AB gro ranvier is found in	up	c) A or B grou	p a	all blood	group
. a) mus			a) dontritos			•:
10 Thyroid	() AN	of lodino	c) dentrites			
a) 110	μg b) 100 μg		everyday for th		-	xine.
11. The	μο μ		C) 120 µg	a,) 105 μg	
The second second	rbon sugar	voolle of t		5.		1 5
and the second second	genous bases		b) phosphate	nhata		
100 mm	n ethanobotany was co	ined by	sugar phos	Pilate		
'á) Kho			c) Ronald Ros	ee d'	Hugo de	Vries
a) Idioi		mm		. ų	i lugo ue	VIICS
	7 /O.I	Part				
/ /	any 7 questions. (Q.I				Aven	7x2=14
	power of accommodat				1.37	
- 10	tungsten metal used in			les r		
13/ Say true	e or false. If false, corre le gases or diatomic		onselveno		dia	
NODI	r mase of CO is 42 a	51	4 gm.		H I I	
Molar mass of CO ₂ is 42 g — 4-41 9M. 16. Classify the following substances into deliquescent hygroscopic. Con.sulphuric acid, copper sulphate pentahydrate silica gel, calcium chloride and						
Con cult	nhuric acid conner eu	Inhate he	ntahvdrata elli	ca nel ca	lelum ebl	oride and
gypsum	call	ipilato pe	manyarata oiii	ou goi, op	Cium Cili	Jilue allu
gypsuin	Jan.	9	(\mathcal{D}	(2)	
(2-)		and the last			
				v		

X Science (2) 17. Draw the structure of chloroplast and mark any 4 parts. Inner mentrant -sunter Membrane. 18. a) Give the common name of the Hirudinaria granulosa. The indinar celtle 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 Polydipsia Excessive hunger 4 d) Polyphagia Connective tissue cancer Laforestation Nilgisi 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

22) PHT OH = 14

7x4=28

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? b) What property forms the basis of identification? __ i=tect rone gatin ty How does the property vary in periods and in groups? 26. Explain the types of double displacement reactions with examples. 27. a) Why is the sinoatrial node called the pacemaker of heart? b) Differentiate between systemic circulation and pulmonary circulation. 28:7a) Name the gaseous plant hormone. Describe its three different actions in plants. b) Which hormone is known as stress hormone in plants? — Absus a cod 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 $3 \times 7 = 21$ IV. Answer all the questions. State and prove the law of conservation of linear momentum. Explain the construction and working of a 'compound microscope'. · 34. a) Calculate the number of moles in i) 27 g of Al ii) 1.51 x 10²³ molecules of NH₄Cl (OR) How is ethanoic acid prepared from ethanol? Give the chemical equation. Differentiate soaps and detergents. 35. a) Illustrate the structure and functions of brain. (OR) Changes in lifestyle is a risk factor for occurance of cardiovascular diseases. Can it be modified? If yes, suggest measures for prevention. How does Insulin deficiency occur? 34) (1) Number of moles: Number of Austealer Whyd = 6.02,200 23 Scanned with CamScanner

Gompulsony Dus Answer

10th Science Second Revision Answerkout

22) PH = 4.5 , POH= ? (2Mark Qns)

pH+poH=14/poH=14-4.5

(pH = 9.5)

32) Univer: $\frac{1}{R_1} + \frac{1}{R_2} = \frac{1}{2} / R_1 + R_2 = 9$.

R1=7 R2=7

in series Connection: RI+R2=9

in Parallel Connection! In + 1 = = (R2=9-R1)

(18 = 9R1 - R12)

R12-9R1+18=0 (factorize)

 $= (R_1 - 3) (R_1 - 6) = 0$

1. R1=3 (on R=6.

R1= 352 Then R2= 9-3=652

R1= 62 Then R2= 9-6=3-2