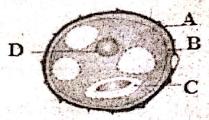
QL	QUARTE	LY COI	MON EXA	MINA	TION - 2	2024		
10 - Std			CIENCE					
Time : 3.00 Hrs.			Karun		m of	Ot MARKS: 75		
=	ne . 5.00 m s		PART-I	V A D				
	Note: (i) Answer All	the question				12 X 1 = 12		
I	(ii) Choose the most	appropriate :	answer from the	given fo	ur alternativ	es and write option		
	code and the corresp	onding ansv	ver.	11. 14. 15.				
1)	Impulse is equals to							
	(a) rate of change of m		(b) rate of	force and	d time			
10.7	(c) change of momentu		(d) rate of	change of	of mass.			
2)	Power of a lens is -4D,	then its foca	l length is:	ACT A				
	(a) 4 m (b)	-40 m	(c) -0.25 r		(d) -2.5 m			
3)	In the Given diagram, t	he possible d	irection of heat e	nergy tra	nsformation i	is:		
		10.23	74 Mg 145	14	Judia of Carlo	303 K		
	(a) $A \leftarrow B, A \leftarrow C, B \leftarrow$	C no .	(b) $A \rightarrow B$,	$A \rightarrow C, B$	→C	A		
	(c) $A \rightarrow B$, $A \leftarrow C$, $B \rightarrow$	С	(d) A ← B,	$A \rightarrow C, B$	←C 3	04 K 305 K		
4)	Kilowatt hour is the un	A STATE OF THE STA				B		
ד)	(a) resistivity (b)		(c) electric	al energy	(d) electric	cal power		
5)	Identify the non-aqueo				J			
٥,	(a) sodium chloride in v	41	(b) glucose	in water				
	(c) copper sulphate in	* .			n-di-sulphide			
6)	The gram molecular ma							
o,			(c) 32 g	4	(d) 17 g.			
7)				100		called		
		thinning	(c) galvani	and the second	(d) electro			
8)				to the fire	(a) cieccio	placing.		
o,	The essential parts of a flower are (a) Calyx and Corolla		(h) Calvy a	(b) Calyx and Androecium				
		265.		그 그는 이 이 그를 위해 보여 들어가 이 하루는 나는 이렇게 그렇게 그렇게 그렇게 되었다고 그 사람이 없다.				
9)	(c) Corolla and Gynoecium (d) Androecium and Gynoecium. Which organ acts as both exocrine gland as well as endocrine gland?							
ر,		23.0	The state of the s	nuocinie				
10)		Kidney	(c) Liver		(d) Lungs.			
10)	나는 그들은 사람들이 되었다. 그 이 사람들이 되었다면 살아왔다.	axons	بانداس جال کوک					
11)	Root hairs are	axulis	(c) dendrit	es	(d) cyton			
7	(a) cortical cell		763 2323					
	(c) unicellular				epidermal ce			
12)			(d) both b	and c.				
77/	(a) chloroplast			AND THE RESERVE				
	(c) stomata		(b) mitocho					
	*(•/,500mata			itochondr	ial membrane			
II .	Note: Answer any sev	An guachia-	PART - II					
13)	Note: Answer any sev State the principle of m	oments	s. Question No.	22 is con	npulsory.	7 X 2 = 14		
14)	State Boyle's law							
15)	Define Atomicity.				5 (1. 1873); 1873; 1873; 1844; 1844; 1844; 18			
16)	State two conditions no	cessary for r	usting of Iron.					
17.52		Landin.			UL 10 കുനിം	Musi YEM\ DA ~~		
	Vindle Cond Me	. X 7 X 7 A	swar to Our amail	ia nadaa	Scanned	with OKEN Scanner		

- Give an example each i) gas in liquid ii) solid in liquid iii) solid in solid iv) gas in gas 17)
- Write the dental formula of rabbit.
- What is bolting? How can it be induced artificially? 19)
- Identify the parts A, B, C and D 20)



- Who discovered Rh factor? Why was it named so? 21)
- An electric heater of resistance 5 Ω is connected to an electric source. If a current of 6 A 22) flows through the heater, then find the amount of heat produced in 5 minutes,

PART-III

- $7 \times 4 = 28$ Note: Answer any seven questions. Question No.32 is compulsory. ш
- Differentiate the eye defects: Myopia and Hypermetropia. 23)
- Derive the ideal gas equation. 24)
- Give the applications of universal law gravitation. 25)
- 26) Write notes on i) saturated solution ii) unsaturated solution
- In what way hygroscopic substances differ from deliquescent substances. 27)
- Where are estrogens produced? What is the role of estrogens in the human body? 28)
- Write the physiological effects of gibberellins.
- Enumerate the functions of blood. 30)
- 31) (i) Match the following

Column I		Column II
A. Nissil's granules		Forebrain
B. Hypothalamus	-	Peripheral Nervous system
C. Cerebellum		Cyton
D. Schwann cell	• 1	Hindbrain
(ii) (a) The source of	f O2 libe	rated in photosynthesis is
(b)	_ is ATP	factory of the cells
Calculate the % of e	each eler	ment in calcium carbonate.

32)

(Atomic mass: C-12, O-16, Ca -40)

PART - IV

IV' Note: Answer all the questions.

Draw diagrams wherever necessary.

- (a) (i) What is meant by electric current? (ii) Name and define its unit. 33)
 - (iii) Which instrument is used to measure the electric current? How should it be connected in a circuit? (OR)
 - (b) (i) State and prove the law of conservation of linear momentum.
 - (ii) Why does the sky appear in blue colour?
- (a) (i) Derive the relationship between Relative molecular mass and Vapour density. (ii) What is 34) meant by Amalgam? Give an example for it. (OR)
 - (b) (i) What happens when MgSO₄.7H₂O is heated? Write the appropriate equation. (ii) Define solubility. (iii) Define Hydrated salt.
- (a) (i) Write the events involved in the sexual reproduction of a flowering plant.
 - (ii) Discuss the first event and write the types.
 - (iii) Mention the advantages and the disadvantages of that event. (OR)
 - (b) (i) With a neat labelled diagram explain the structure of a neuron.
 - (ii) Define reflex arc.

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