C	ass	10



# UNIT TEST - 2, AUGUST- 2024

Hmy	Allowed:	1.30	ttaurs)

## SCIENCE

[Max. Marks : 50

			PAR	(T - I		
1	Choose the best an	swar.				0x1=9
1	The value of Universa	i gas c	onstant			
	ay 3 51 J mol' k"			tri	8 03 J mol'k	•
	e 1 38 J mol'k'			d)		
2	If a substance is fleat	ed or C	cooled the chan	ge in r	nass of that sub-	stance is
	(a) Positive		Negative	(c	Zero	d) None of the above
3	Which of the following	is the	Universal Solve	nt?		
	(a) Acetone		Benzene		Water	(d)Alcohol
4	Which of the following	is Hyg	roscopin in Nati	ito?		
	(a) Ferric Chloride			(b)	Copper Sulpha	te Penta Hydrate
	(c) Silica Gel			(d)	None of the abo	ove
5.	"Heart of Heart" is call	od	*****			
	(a) SAnode			(b)	AV Node	
	(c) Puckinje Fibres			(d)	Bundle of His	
6	Bipolar neurons are fou	nd in -			10	
	(a) Retina of Eye			(b)	Cerebral cortex	1
	(e) Embryo			(d)	Respiratory api	thelium
7.	Vamiling centre is locate	ed in -				
	(a) Muscles		Axons	(c)	Dendrites	(d) Cyton
8	Avena coleptile test was	cende	acted by			
	(a) Darwin		V.Smit	(c)	Paal	(d)F.W Went
	Which one is referred as	'Mas	ter Gland*?			
			utuitary Gland	(c)	Thyroid Gland	(d) Adrenal Gland
	(a) The oresine		PART	- 11		
	Answer any four of the	follo			No.15 Is compu	Isory) 4x2=8
	Answer any four of the	10110	and durante			**
$\alpha \cdot r$	Janua Huggaled Sail					

9

11.

- 11 Match the following.
  - CaSO, 2H,O 1 Blue Vitriol
  - · CaO 2. Gypsum
  - 3 Deliquescence CuSO, 5H,O
  - 4 Hygroscopic NaOH

CH/10/Sel/1

- 12 Who discovered RH Factor? Why was it named so?
- 13. Define Reflex Arc
- 14 What are Synthetic Auxins? Give Examples?
- 15 Keeping the temperature as constant, a gas is compressed four times of its initial pressure. The Volume of gas in the container changing from 20 cc (V,cc) to V<sub>f</sub>c Find the Final Volume V,

### PART - III

III. Answer any three of the following. (Q.No.20 is compulsory)

3x4=12

- 16 i) State Boyle's Law ii) State the Law of Volume
- 17. Enumerate the Functions of Blood.
- 18 Differentiate between:
  - Voluntary and Involuntary Actions
  - ii) Medullated and Non Medullated nerve fibre.
- 19. Name the Gaseous Plant Hormone. Describe its three different Actions in Plants
- 20. What happens when MgSo, 7H,O is Heated? Write the appropriate equation?

## PART - IV

IV. Note: Answer In detail.

3x7 = 21

21. a) i) Derive the Ideal Gas equation.

(OR)

- b) i) Explain the experiment of Measuring the real and apparent expansion of a liquid with a neat diagram.
- 22. a) i) In what way hygroscopic substances differ from Deliquescent Substance.
  - A solution is prepared by Dissolving 45g of Sugar in 180 g of water. Calculate the Mass Percentage of Solute.

(OR)

- b) i) What is Transpiration? give an Importance of Transpiration
- 23. a) i) With a neat labelled Diagram explain the structure of a Neuron.

(OR)

- b) i) What are Chemical Messengers?
  - ii) Write the Physiological effects of Gibberellins

CH/10/Sci/: