UNIT TEST - 2. AUGUST - 2024         Time Allowed : 1.30 Hours;       SCIENCE       Market statust         1. Choose the best answer.       PART - 1         2. The value of Universal gas constant       9 8.03 J mot* k*         (a) 3.81 J mot* k*       (b) 8.03 J mot* k*         (a) 1.39 J mot* k*       (b) Negative       (c) Zero         (a) Positive       (b) Negative       (c) Zero       (c) None of the above         (a) Positive       (b) Benzene       (c) Water       (c) Alconol         (a) Acetone       (b) Benzene       (c) Water       (c) Alconol         (a) Positive       (b) Benzene       (c) Water       (c) Alconol         (a) SA node       (c) Carper Sulphate Penta Hydrate       (c) Silica Gei       (d) None of the above         (c) Embryo       (d) Bundle of His       (d) Sundle of His       (d) Respiratory epithelium         7. Vomiting centre is located in	www.Padasalai.Net			www.Trb Tnpsc.Com
SCIENCE PART -1 PART	Class : 10			
SCIENCE PART -1 PART		UNIT TEST	Namber	
<ul> <li>PART -1</li> <li>Choose the best answer.</li> <li>The value of Universal gas constant <ul> <li>a) 3.81 J mol<sup>+</sup> k<sup>+</sup></li> <li>b) 8.03 J mol<sup>+</sup> k<sup>+</sup></li> <li>c) 1.38 J mol<sup>+</sup> k<sup>+</sup></li> <li>d) 8.31 J mol<sup>+</sup> k<sup>+</sup></li> <li>d) 8.31 J mol<sup>+</sup> k<sup>+</sup></li> <li>d) 8.31 J mol<sup>+</sup> k<sup>+</sup></li> <li>e) Positive <ul> <li>(b) Negative</li> <li>(c) Zero</li> <li>(d) Alconol</li> </ul> </li> <li>Which of the following is the Universal Solvent? <ul> <li>(a) Acetone</li> <li>(b) Benzene</li> <li>(c) Water</li> <li>(d) Alconol</li> </ul> </li> <li>Which of the following is Hygroscopin in Nature? <ul> <li>(a) Acetone</li> <li>(b) Benzene</li> <li>(c) Water</li> <li>(d) Alconol</li> </ul> </li> <li>Which of the following is Hygroscopin in Nature? <ul> <li>(a) Acetone</li> <li>(b) Benzene</li> <li>(c) Water</li> <li>(d) Alconol</li> </ul> </li> <li>Which of the following is Hygroscopin in Nature? <ul> <li>(a) Acetone</li> <li>(b) Benzene</li> <li>(c) Copper Sulphate Penta Hydrate</li> <li>(c) Silica Gel</li> <li>(d) None of the above</li> </ul> </li> <li>Theart of Heart * is called <ul> <li>(a) SA node</li> <li>(b) AV Node</li> <li>(c) Puokinje Fibres</li> <li>(d) Bundle of His</li> </ul> </li> <li>Bipolar neurons are found in <ul> <li>(a) Retina of Eye</li> <li>(b) Cerebral cortex</li> <li>(c) Embryo</li> <li>(d) Respiratory epithelium</li> </ul> </li> <li>Vomiting centre is located in</li></ul></li></ul>	. Time Allowed : 1.30 Hours	SC SC	AUGUST- 202	14 aipt
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<ul> <li>a) 3.81 J mol<sup>+</sup> k<sup>+</sup></li> <li>b) 8.03 J mol<sup>+</sup> k<sup>+</sup></li> <li>c) 1.38 J mol<sup>+</sup> k<sup>+</sup></li> <li>d) 8.31 J mol<sup>+</sup> k<sup>+</sup></li> <li>e) Positive         <ul> <li>(b) Negative             <li>(c) Zero             </li> <li>(d) Acetone             </li> <li>(e) Degative             </li> <li>(f) Acetone             </li> <li>(h) Benzene             </li> <li>(c) Zero             </li> <li>(d) Acetone             </li> <li>(e) Benzene             </li> <li>(f) Acetone             </li> <li>(h) Benzene             </li> <li>(c) Vater             </li> <li>(d) Aconol             </li> <li>(e) Silica Gel             </li> <li>(f) Copper Sulphate Penta Hydrate             </li> <li>(g) SA node             </li> <li>(h) AV Node             </li> <li>(c) Puokinje Fibres             </li> <li>(d) None of the above             </li> </li></ul> </li> <li>(e) Sulphate Penta Hydrate             <ul> <li>(f) At None of the above</li> </ul> </li> <li>(g) SA node             <ul> <li>(h) AV Node</li> <li>(c) Puokinje Fibres             </li> <li>(h) AV Node</li> <li>(c) Puokinje Fibres             </li></ul> </li> <li>(h) Av Node             <ul> <li>(h) AV Node</li> <li>(h) Av Node</li> </ul> </li> <li>(h) Avons             <ul> <li>(h) Av Node</li> <li>(h) Avons             </li></ul> </li> <li>(h) Avons             <ul> <li>(h) AV Node</li> <li>(h) Avons             </li> <li>(h) Avons             </li></ul> </li> <li>(h) Avons             <ul> <li>(h) Av Node</li> <li>(h) Avons             </li> <li>(h) Avena</li></ul></li></ul>	1. The value of Universit	al gas constant		9x1= 9
<ul> <li>If a substance is Heated or Cooled the change in mass of that substance is</li></ul>	a) 3.81 J mol <sup>-1</sup> k <sup>-1</sup>		b) 8.03 (mol)	16-1
<ul> <li>(a) Positive (b) Negative (c) Zero (d) None of the above</li> <li>3. Which of the following is the Universal Solvent?</li> <li>(a) Acetone (b) Benzene (c) Water (d)Alcohol</li> <li>4. Which of the following is Hygroscopin in Nature?</li> <li>(a) Ferric Chloride (b) Copper Sulphate Penta Hydrate (c) Silica Gel (d) None of the above</li> <li>5. "Heart of Heart " is called</li></ul>			10 0 01 1	
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<ul> <li>7. Vomiting centre is located in</li></ul>	the second state of the second state of the			
<ul> <li>(a) Muscles</li> <li>(b) Axons</li> <li>(c) Dendrites</li> <li>(d) Cyton</li> </ul> 8. Avena coleptile test was conducted by <ul> <li>(a) Darwin</li> <li>(b) N.Smit</li> <li>(c) Paal</li> <li>(d) F.W Went</li> </ul> 9. Which one is referred as "Master Gland"? <ul> <li>(a) Pineal Gland</li> <li>(b) Pituitary Gland</li> <li>(c) Thyroid Gland</li> <li>(d) Adrenal Gland</li> <li>(d) Adrenal Gland</li> <li>(e) Paal</li> <li>(f) F.W Went</li> </ul> 9. Define - Hydrated Salt <ul> <li>Match the following.</li> <li>1. Blue Vitriol</li> <li>CaSO<sub>4</sub>. 2H<sub>2</sub>O</li> <li>2. Gypsum</li> <li>CaO</li> <li>3. Deliquescence</li> <li>CuSO<sub>4</sub>. 5H<sub>2</sub>O</li> </ul>		-17-	(d) Respiratory e	epithelium
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Match the following. 1. Blue Vitriol - CaSO <sub>4</sub> . 2H <sub>2</sub> O 2. Gypsum - CaO 3. Deliquescence - CuSO <sub>4</sub> . 5H <sub>2</sub> O				
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2. Gypsum - CaO 3. Deliquescence - CuSO <sub>4</sub> $.5H_2O$		0.00 000		
3. Deliquescence - CuSO <sub>4</sub> .5H <sub>2</sub> O			A. the sector and the	
4. Hygroscopic - NaOH CH/10/Sci/1	3. Deliquescence - 0	CuSO, .5H2O		
	4. Hygroscopic - N	laOH		CH/10/Sci/1

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Kindly Send Me Your Key Answer to Our email id - Padasalai.net@gmail.com

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- 12. Who discovered RH Factor? Why was it named so?
- 13. Define Reflex Arc.

- 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<sub>1</sub>cc). to V<sub>2</sub>cc Find the Final Volume V<sub>2</sub> PART - III

3x4=12

- III. Answer any three of the following. (Q.No.20 is compulsory) State the Law of Volume ii)
- State Boyle's Law 16. i)
- 17. Enumerate the Functions of Blood.
- 18. Differentiate between:
  - i) 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  $MgSo_4$ .  $7H_2O$  is Heated? Write the appropriate equation?

3x7=21

- IV. Note : Answer in detail.
- 21. a) i) Derive the Ideal Gas equation.
- b) i) Explain the experiment of Measuring the real and apparent expansion of a liquid with a
- 22. a) i) In what way hygroscopic substances differ from Deliquescent Substance.
- ii) 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/2

Kindly Send Me Your Key Answer to Our email id - Padasalai.net@gmail.com