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**10** - Std

RMI

TIRUVANNAMALAI-DT FIRST REVISION TEST - 20

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		200	- Test 1			

Time: 3.00 Hrs.

SCIENCE

Marks: 75

17	Part - I								
	Answer all the qu	12 X 1 = 12							
1.	One kilogram force	e equals to		-					
	a) 9.8 dyne	b) 9.8 X 10 <sup>4</sup> N	c) 980 dyne	d) 9.8 X 10 <sup>4</sup> dyne					
2.	SI unit of resistant	ce is							
	a) mho	b) joule	c) ohm	d) ohmmeter					
3.	In the nuclear reaction $6^{x^{12}} \xrightarrow{\alpha-decay} z^{y^{-1}}$ the value of A & Z								
,	a) 8, 6	b) 8, 4	c) 4,8	d) 12, 6					
4.	Atoms of different elements having same number of are called isotones.								
	a) neutrons	b) atomic number	c) atomic mass	d) protons					
5.	Among the given species A-, A+ and A, the smallest one in size is								
	a) A-	b) A+	c) A	d) 0					
6.	When pressure is increased at constant temperature, the solubility of gases in liquid								
			* * **						
	a) no change	b) increases	c) decreases	d) no reaction					
7.	The endarch condition is the characteristic feature of								
	a) root	b) stem	c) leaves	d) flower					
8.	Nerve cells do not	posses		p. 21. 14. 1					
	a) neurilemma	b) sarcolemma	c) axon	d) dendrites					
9.	LH is secreted by			1.5					
( <b>4</b> )	a) Adrenal gland	b) Thyroid gland	c) Anterior pituitary	d) Hypothalamus					
10.	A sexual reproduction takes place through budding in								
	a) amoeba	b) yeast	c) plasmodium	d) bacteria					
11.	The u	units form the backbone of the DNA.							
	a) 5 carbon sugar	b) phosphate c)	Nitrogenous bases d	) sugar phosphate					
12.		AND THE STATE OF T							
	a) folder	b) box	c) paint	d) scanner					
		Part -	II						
	Answer any seve	en questions. (Q.No.	22 is compulsory)	7 X 2 = 14					
13.	Why does the sky	appear in blue colour?							
14.	Define critical mass.								
15.	What is aqueous and non-aqueous solution? Give an example.								
16.	If the pH value of	If the pH value of solution is zero then what will be the nature of the solution? Give							
	reason.		y Toronto	the state of the state of					
17.	Draw the label the	Draw the label the structure of oxysomes.							
1.0	How does leach a	ick blood from the boo	+2	S. F. Y.					

- 19. Who discovered Rh factor? Why was it named so?
- 20. What is pollination?
- 21. What do you understand by the term phenotype and genotype?
- 22. A torch bulb is rated at 3v and 600mA. Calculate its resistance.

## Part - III

## Answer any seven questions. (Q.No. 32 is compulsory) $7 \times 4 = 28$

- 23. i) Fill up: a) Opening a door: Moment of force, opening a water tap: ............
  - b) Pushing a bus by a group of people: Like parallel forces,

Tug of war : ......

- ii) The power of a lens is -2D. Find the focal length of a lens.
- 24. Match it:
  - a) Electric current Volt
  - b) Potential difference Ohm meter
  - c) Resistivity
- Watt
- d) Electric power
- Ampere
- 25. Difference between the sound and light waves.
- 26. a) Define Relative Atomic Mass. b) Give any two examples for hetero diatomic molecules.
- 27. How do detergents cause water pollution? Suggest remedial measures to prevent this pollution.
- 28. i) Why are the rings of cartilages found in trachea of rabbit?
  - ii) Define reflex arc.
- 29. Draw the external structure of human heart and label the parts.
- 30. Define Ethnobotany and write its importance.
- 31. Explain about Gene therapy.
- 32. a) Give the function of control rods in a nuclear reactor.
  - b) Calculate the pH of 1.0 X 10-4 molar solution of HNO3.

## Part - IV

## Answer all the questions. Draw diagrams wherever necessary. $3 \times 7 = 21$

- 33. a) i) State Newton's law of motion. (5)
  - ii) Write the uses of Telescope. (2) (OR)
  - b) Compare the properties of Alpha, beta, and gamma radiations.
- 34. a) i) Give the salient features of 'modern atomic theory'. (5)
  - ii) Write any two applications of `Avogadro's law. (2) (OR)
  - b) What is called homologous series? Give its characteristics.
- 35. a) i) What is respiratory quotient? (2)
  - ii) What is eothesion? (2)
  - iii) What are the effects of hybrid rigour in animals? (3) (OR)
  - b) i) What are the various routes by which transmission of human immuno deficiency virus takes place? (3) ii) Enumerate the importance of forest. (4)

RMI 10 - அறிவியல் (EM) பக்கம் -2

FIRST REVISION TEST - 2023 10 -Std SCIENCE Time: 3.00 Hrs. Marks: 75 But Sier Ilfanois Answer all the questions. 12 X 1 = 12Ans: 98 x 104 dyne One kilogram force equals to 1. d) 9.8 X 104 dyne c) 980 dyne a) 9.8 dyne b) 9.8 X 10<sup>4</sup> N SI unit of resistance is d) ohmmeter a) mho In the nuclear reaction  $6^{x^{12}} \xrightarrow{\alpha-decay} z^{Y^A}$  the value of A & Z a) 8, 6 b) 8, 4 c) 4,8d) 12, 6 Atoms of different elements having same number of ...... are called isotones. 4. c) atomic mass d) protons b) atomic number. Among the given species A., A+ and A, the smallest one in size is ...... a) A When pressure is increased at constant temperature, the solubility of gases in liquid d) no reaction a) no change b) increases c) decreases The endarch condition is the characteristic feature of 7. c) leaves d) flower b) stem a) root Nerve cells do not posses d) dendrites b) sarcolemma c) axon a) neurilemma LH is secreted by Anterior pituitary d) Hypothalamus b) Thyroid gland a) Adrenal gland 10. A sexual reproduction takes place through budding in ..... c) plasmodium d) bacteria b) yeast a) amoeba The ...... units form the backbone of the DNA. c) Nitrogenous bases d) sugar phosphate a) 5 carbon sugar b) phosphate 12. All files are stored in the ..... d) scanner c) paint a) folder b) box Part - II Answer any seven questions. (Q.No. 22 is compulsory) 13. Why does the sky appear in blue colour? scattering, shorter wave length 14. Define critical mass. minimum mass of a fisile to sustain the claim reaction 15. What is aqueous and non-aqueous solution? Give an example. solvent - water 16. If the pH value of solution is zero then what will be the nature of the solution? Give reason. Draw the label the structure of oxysomes. 17. How does leech suck blood from the host? for radiate incision, hirudi RMI 10 - அறிவியல் (EM) பக்கம் -1

Rhesus monkey 19. Who discovered Rh factor? Why was it named so? Land stering & weren 1940 20. What is pollination? transfer of polling grains from anthon to stigma 21. What do you understand by the term phenotype and genotype? 22. A torch bulb is rated at 3v and 600mA. Calculate its resistance. of a part ular trait Mentic engression P2 2 3 = 5 P Part - III Answer any seven questions. (Q.No. 32 is compulsory) 7 X 4 = 28i) Fill up: a) Opening a door: Moment of force, opening a water tap: memond of a علميص b) Pushing a bus by a group of people : Like parallel forces, Tug of war : walike parallel forces ii) The power of a lens is -2D. Find the focal length of a lens.  $9 = \frac{1}{6}$ 24. Match it: Volt 2 a) Electric current b) Potential difference -Ohm meter 3 c) Resistivity Watt 4 d) Electric power Ampere 25. Difference between the sound and light waves. 26. a) Define - Relative Atomic Mass. b) Give any two examples for hetero diatomic molecules. 27. How do detergents cause water pollution? Suggest remedial measures to prevent this pollution. 28. i) Why are the rings of cartilages found in trachea of rabbit? II) Define reflex arc. 29. Draw the external structure of human heart and label the parts. 30. Define Ethnobotany and write its importance. 31. Explain about Gene therapy. a) Give the function of .control rods in a nuclear reactor. b) Calculate the pH of 1.0 X 104 molar solution of HNO3. pH = 4 Part - IV Answer all the questions. Draw diagrams wherever necessary. a) i) State Newton's law of motion. (5) ii) Write the uses of Telescope. (2) (OR) b) Compare the properties of Alpha, beta, and gamma radiations. 34. a) i) Give the salient features of `modern atomic theory'. (5) ii) Write any two applications of `Avogadro's law. (2) (OR) b) What is called homologous series? Give its characteristics. 95. a) i) What is respiratory quotient? (2) ii) What is eothesion? (2) III) What are the effects of hybrid rigour in animals? (3) (OR) b) i) What are the various routes by which transmission of human immuno deficiency virus takes place? (3) ii) Enumerate the importance of forest. (4) RMI 10 - அறிவியல் (EM) பக்கம் -2

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