RMI

FIRST REVISION TEST - 2023

SCIENCE

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1	- (-3)		+4
	33.4	1.64	By an

10 - Std Time; 3.00 Hrs.

Marks: 75

art - I			
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	Answer all the o	westions.		12 X 1 = 12			
i.	One kilogram for						
at your			c) 980 dyne	d) 9.8 X 10 ⁴ dyne			
2.	a) 9.8 dyne b) 9.8 X 10 ⁴ N c) 980 dyne d) 9.8 X 10 ⁴ dyne SI unit of resistance is						
	a) mho	b) joule	c) ohm	d) ohmmeter			
3.	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) 4,8	d) 12, 6			
4.	Atoms of different elements having same number of are called isotones						
	a) neutrons		c) atomic mass				
5.	Among the given		, the smallest one in size				
	a) A	b) A+	c) A	d) 0			
6.	When pressure is	increased at constan	nt temperature, the solut	oility of gases in liquid			
		Y.					
	a) no change	b) increases	c) decreases	d) no reaction '			
7.	The endarch con-	dition is the characte	ristic feature of				
	a) root	b) stem	c) leaves	d) flower			
8.	Nerve cells do no	ot posses	the state of	Agragia de la companya de la company			
	a) neurilemma	b) sarcolemma	c) axon	d) dendrites			
9.	LH is secreted by						
	a) Adrenal gland	b) Thyroid gland	c) Anterior pituitary	d) Hypothalamus			
10.	A sexual reprodu	iction takes place thre	ough budding in				
	a) amoeba	b) yeast	c) plasmodium	d) bacteria			
11.		units form the backb					
	a) 5 carbon suga	r b) phosphate	c) Nitrogenous bases d) sugar phosphate			
12.	All files are store	d in the					
	a) folder	b) box	c) paint	d) scanner			
			rt - II				
			No. 22 is compulsory)	7 X 2 = 14			
13.		y appear in blue colo	our?				
14.	Define critical ma						
15.			olution? Give an example				
16.	If the pH value or reason.	r solution is zero the	en what will be the nature	e of the solution? Give			
17.	Draw the label the structure of oxysomes.						
18.	How does leech	suck blood from the	host?				

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- 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 X 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.

'Ampere

- 24. Match it:
 - a) Electric current V
 - b) Potential difference Ohm meter
 - c) Resistivity Watt
 - d) Electric power -
- 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

Kindly send me your questions and answerkeys to us: Padasalai.Net@gmail.com