RS3 Krowkanemalhs-Com SCIENCE Marks: 75 Time: 3.00 Hrs PART - I Note: (i) Answer All the questions. $12 \times 1 = 12$ (ii) Choose the most appropriate answer from the given four alternatives and write option code and the corresponding answer. Which of the following lens would you prefer to use while reading small letters found in a dictionary? (5)(A convex lens of focal length 5 cm b) A concave lens of focal length 5 cm c) A convex lens of focal length 10 cm d) A concave lens of focal length 10 cm In a simple circuit, why does the bulb glow when you close the switch? a) The switch produces electricity. OClosing the switch completes the circuit. c) Closing the switch breaks the circuit.
 d) The bulb is getting charged. Velocity of sound in the atmosphere of a planet is 500 ms-1. The minimum distance between the sources of sound and the obstacle to hear the echo, should be b) 20 m @)125 m d) 50 m Which of the following has the smallest mass? 4. a) 6.023 × 10²³ atoms of He 1 atom of He c) 2 g of He d) 1 mole atoms of He 5. group contains the member of halogen family. b) 15th c) 18th d) 16th Which of the following is not an "element + element 'I compound" type reaction? 6. a) $C_{(5)} + O_{2(9)} --> CO_{2(9)}$ b) 2K(s) + Br2(1) --> 2KBr(s) $O(2CO_{(g)} + O_{2(g)} --> 2CO_{2(g)}$ d) $4Fe_{(s)} + 3O_{2(q)} --> 2Fe_2O_3(s)$ The brain of leech lies above the a) Mouth b) Buccal Cavity Pharynx d) Crop Which one of the following is an IUCD? 8. Copper - T b) Oral pills c) Diaphragm d) Tubectomy The centromere is found at the centre of the _ 9. chromosome. a) Telocentric () Sub-metacentric () Acrocentric 10. Pusa Komal is a disease resistant variety of . a) Sugarcane b) Rice Cow pea d) Maize 11. Tobacco consumption is known to stimulate secretion of adrenaline. The component causing this could be கலவி (Education On Wicotine b) Tannic acid d) Leptin www.kanimaths.com c) Curcumin 12. The gas released from vehicles exhaust are You Tube : Kani Math i. Carbon monoxide II. Sulphur dioxide III. Oxides of nitrogen a) i and ii b) i and iii c) ii and iii (3); ii and iii PART - II Note: Answer any seven questions. Question No.22 is compulsory. $7 \times 2 = 14$ 13. While catching a cricket ball the fielder lowers his hands backwards. Why? 14. What are the causes of 'Myopia'? 15. What is rust? Give the equation for formation of rust. 16. Classify the following substances into deliquescent, hygroscopic. Con.Sulphuric acid, Copper sulphate pentahydrate, Silica gel, Calcium chloride 17. Identify the parts A,B,C,D. in the given figure. RS3 10 Science E.M. PAGE - 1

P		Why is the Sinoatrial node called the pacemaker of heart?
P	18.	What is the role of parathormone? What is the role of parathormone?
	19.	make hetween somatic gene that up/
	21.	What is Sprite?
	22.	What is Sprite?
	6.6	the final daughter nucleus that is formed.
		DADT - III
		A server any seven questions, Question No.32 is compulsory.
	6.0	to eta-sity the types of force pased on than approve
	23.	(ii) How does an astronaut float in a space shuttle?
		at what to refractive index?
	24.	(ii) Why does the sky appear in blue colour?
	- 1	to the form of boating
	25.	
		-D /E/IIICALION - /
	26.	Casua Znad
		1. Blue vitriol - CaSO ₄ .2H ₂ Q www.kanimaths.com 2. Gypsum - CaO CuSO ₄ .5H ₂ Q You Tube : Kani Maths
		2. Gypsum - CaO You Tube : Kani matris
		of the state of th
		4. Hygroscapis
		The normal pH of human blood istype of reaction Chemical volcano is an example fortype of reactions:
		Give the balanced chemical equation of the following reactions:
	27.	(i) Neutralization of NaOH with ethanolc acid.
		(i) Neutralization of Athanal
		(ii) Combustion of ethanol. Define Ethnobotony and write its importance.
	28.	Discuss the importance of placechnology in the field of medicine.
	29	Differentiate between Type-1 and Type-2 diabetes mellitus
	30.	
alke	31.	What are the consequences of soil crossoft and crossoft and crossoft and crossoft and crossoft and crossoft
STALLYST	32.	The second secon
		PART - IV
		Note: Answer all the questions. Draw diagrams wherever necessary.
	33	 (a) (i) State and prove the law of conservation of linear momentum. 3 X 7 = 21
		(ii) State Boyle's law. (OR)
		(b) (i) What do you understand by the term 'ultrasonic vibration?
		(ii) State three uses of ultrasonic vibrations.
		(iii) Name three animals which can hear ultrasonic vibrations.
	34	i. (a) (i) What are the methods used to prevent corrosion?
		(ii) Define Hydrated salt. (OR)
		(b) (i) The electronic configuration of metal A is 2, 8, 18, 1. The metal A when
		exposed to air and moisture forms B a green layered compound. A with con.
		H,SO, forms C and D along with water. D is a gaseous compound. Find A,B,C and
1		D. (ii) Why does the reaction rate of a reaction increase on raising the temperature?
	35	5. (a) (i) Write a short note on mesophyll.
		(ii) How are arteries and veins structurally different from one another?
		(iii) What does CNS stand for? (OR)
		(b). (i) Write the events involved in the sexual reproduction of a flowering plantice
		a. Discuss the first event and write the types.
		b. Mention the advantages and the disadvantages of that event.
-		(ii) Which acts as a link between the nervous system and endocrine system? RS3 10 Science E.M. PAGE - 2
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