SET II

CLASS: IX MAX. MARKS: 20 DATE: 17/01/2024 TIME: 40 MINUTES

General Instructions:

- i. This question paper consists of 10 questions in 5 sections.
- ii. All questions are compulsory. However, an internal choice is provided in some questions. A student is expected to attempt only one of these questions.
- iii. **Section A** consists of six objective type questions carrying 1 mark each.
- iv. Section B consists of one very short question carrying 2 marks.
- v. **Section C** consists of one short answer type question carrying 3 marks.
- vi. **Section D** consists of one descriptive question carrying 5 marks.
- vii. Section E consists of one case-based question carrying 4 marks with sub-parts.

Select :	and write one most appropriate		ECTION – A	each of the questions 1 to 4		
Q.No	and write one most appropriate option out of the four options given for each of the questions 1 to 4 Questions					
1	Which animal tissue changes the diameter of a blood vessel?					
	(a)Epithelium (b)Connective tissue					
	(c)Nervous tissue (d)Muscular tissue					
2	Which type of tissue correctly matches with its location?					
	Tissue		Location			
	A)Cuboidal epithelium	Lining of t	rachea			
	B)Ligament	Joints of li	imbs			
	C)Cartilage	Inner ear				
	D)Smooth muscle	Heart				
	(a)A (o)B	(c) C	(d)D		
3	A ship rises when it enters from river to sea, because					
	(a) the force of buoyancy decreases (b) the force of buoyancy increases					
	(c) the volume of ship increases (d) the mass of ship decreases					
4	What is the formula unit mass of Potassium carbonate (K ₂ CO ₃)?					
	(a) 114u	(b) 138u	(c) 98u	(d) 68u		
	Q. no 5 and 6 are Assertion	_	•	A	alaatina	
			n (A) and Reason (R).	Answer these questions by se	electing	
	the appropriate option from below:					
	(a) Both A and R are true and R is the correct explanation of A (b) Both A and R are true and R is not the correct explanation of A					
	(c) A is true but R is false					
	(d) A is false but R is true					
_	Assertion (A): The presence of connective tissue in the brain helps in the conduction of ner					
5	impulse.					
	-	nerve cells rece	eive messages and axo	ns carry message out of a		
	Assertion (A): In water, the ratio of mass of hydrogen to the mass of oxygen is always 1:8					
c	whatever the source of water.					
6	Reason(R) : According to law of constant proportion, the elements are always present in definite proportion by mass in a chemical substance.					

	SE	ECTION – B						
7	An element 'Y' has a valency 2:			2				
	(a) Write the formula of its hydrogen carbonate.							
	(b) Write the formula of its sulphide.							
	SI	ECTION – C						
8	(a) Give the chemical formulae of the following compounds and compute the ratio by mass of							
İ	the combining elements in each one of them.							
	(i) Ammonia							
	(ii) Carbon monoxide							
	(b) Give an example of a tetraatomic molecule.							
	SE	ECTION-D						
9	(a) A light and a heavy object have the same momentum. What is the ratio of their kinetic							
	energies? Which one has a larger kinetic energy?							
	(b) A ball is dropped from a height of 10 m. If the energy of the ball reduces by 40% after							
	striking the ground, how much high can the ball bounce back? ($g = 10 \text{ m/s}^2$)							
	SEC	CTION – E						
10.				4				
	Test	Patient's value	Normal value					
	RBC count(cells/mmc)	2.8	3.8-5.2					
	Haemoglobin(g/dl)	7.5	12-16					
	Platelet	285	150-400					
	count(number/mmc)							
	The table given above is the blood test result of an anaemic nations							
	The table given above is the blood test result of an anaemic patient.							
	a) The time taken for clotting of blood in this person is normal. Why?							
	b) In the above blood test result, the number of RBCs and the amount of haemoglobin is less. How are these two related?							
	c) Which component of blood is considered as "Soldiers of our body"? Why?							
	OR							
	OI	N.	c) State any four functions of blood.					