

GRADE: IX	TERM I EXAMINATION (2023-24)	Marks: 80
Date:11-09-23	SCIENCE	Time: 3h

Q.N o.	Questions	M ar
		k
	Section A	
1	Choose the correct answer	1
2	A	1
3 4	C C	1
5	D	1
6	В	1
7	С	1
8	C	1
9	С	1
10	B	1
11	C	1
12	A	1
13	С	1
14	A	1
15	D	1
16	D	1
17	C	1
18	С	1
19	D	1
20	A	1
	SECTION B	
	VERY SHORT ANSWER QUESTION	
21	Deoxyribonucleic acid and adenosine triphosphate	2
22	Surface area, temperature, humidity, wind speed	2
23	Speed=distance/timevelocity=displacement/timeSI unit -m/sSI unit =m/s	2
24	Due to the presence of aerenchyma	2

		1
25	suspension is a heterogeneous mixture.	
	size of solute particles in a suspension is quite large.	2
	particles of a suspension can be seen easily.	
	suspension is unstable.	
20	Third low reduce memorium	2
26	Third law, reduce momentum	2
	Section C	
	SHORT ANSWER QUESTION	
27	Delegan is one of the two types of yassular tissue in plants. It transports food	3
27	Phloem is one of the two types of vascular tissue in plants. It transports food	5
	formed in the leaves to the other parts of the plants. Sieve tubes, companion	
	cells, phloem fibers, and the phloem parenchyma are the four types of	
28	constituents that make up phloem. Mass of urea present in solution = 16 g	3
20	Mass of urea present in solution = $16 \text{ g}$ Mass of solution = $120 \text{ g}$	5
	Mass of solution = 120 g Mass percentage = mass of the solute/mass of solution $\times$ 100	
	= 16/120 x 100 =13.33%	
29		3
29	$M_1v_1 + m_2v_2 = m_1u_1 + m_2u_2$	5
	5v1+50*10-3=0+0	
22	=-0.4 m/s	~
30	ST F=ma	3
31	a. particles of matter have space between them	3
	b. particles of matter are continuously moving	
	c. particles of matter attract each other	
22		~
32	Nervous tissue is found in the brain, spinal cord, and nerves. It is responsible	3
	for coordinating and controlling many body activities. It stimulates muscle	
	contraction, creates an awareness of the environment, and plays a major role	
	in emotions, memory, and reasoning.	-
33	Homogenous mixture where two or more substances are mixed.	3
	Dilute solution	
	A solution which has a lower concentration of solute.	
	Concentrated solution     A solution which has realized larger amount of solute	
	A solution which has realtively larger amount of solute	
	Saturated solution     A colution that has dissolved as much colute as it is capable of dissolving and	
	A solution that has dissolved as much solute as it is capable of dissolving and	
	no more solute can be dissolved at a given temperature SECTION-D	
	LONG ANSWER QUESTIONS.	
34	Features of muscular tissues	5
	Elongated cells	
	Also calles as muscle fibres	
	Resposible for movement in our body	
	Contains a special proteins called contractile protein, which	
	Contract and relax to cause movement.	
	Voluntary muscles	
L		1

Voluntary muscles ar	a the muscles of the	body that is attached	d to bonos and		
<ul> <li>Voluntary muscles are the muscles of the body that is attached to bones and control movement of the limbs, head, neck, and body under conscious control</li> <li>It is also known as skeletal muscles as they are mostly attached to the bones and help in the body movement <ul> <li>Involuntary muscles</li> </ul> </li> <li>Involuntary muscles are the ones that do not move or contract under the conscious control of a person, i.e., these muscles work automatically.</li> <li>These muscles line the organs like the urinary bladder, blood vessels, stomach, intestine, etc.</li> <li>Cardiac muscles</li> </ul>					
lso known as heart	muscle				
They are cylindrical, They have striation	branched and uninuc	cleated			
They are involuntary Created a rythemic co	ontraction and relava	tion			
Difference Between True Solutions,					
Suspensions and Colloidal Solutions					
Suspension	is and Collo	idal Solutio	ons		
	1	idal Solutio			
	S and Collo True Solutions	suspensions	ONS Colloidal Solutions		
SUSPENSION Property Particle size	True	Suspensions	Colloidal		
Property	True Solutions Less than 10	Suspensions Greater than	Colloidal Solutions Between 10		
Property Particle size Visibility of	True Solutions Less than 10 -9 m Invisible to naked eye not visible under powerful microscope	Suspensions Greater than 10 <sup>-7</sup> m Easily	Colloidal Solutions Between 10 and 10 <sup>-9</sup> m Invisible to naked eye. Visible und powerful		

36

Filtration

power

through filter

Action and reaction, third law of motion After and before collision total momentum is conserved Derive : $M_1v_1+m_2v_2=m_1u_1+m_2u_2$ 

No residue

is formed

Residue is

formed

No residue

5

formed

SECTION - E         CASE-BASED/DATA -BASED QUESTIONS         37       a) When dry apricots are left in pure water, they swell up.         b) If plasma membrane of a cell breaks down, all the protoplasmic material	4
CASE-BASED/DATA -BASED QUESTIONS37a) When dry apricots are left in pure water, they swell up.	4
37 a) When dry apricots are left in pure water, they swell up.	4
	4
<ul> <li>including cells organelles will come out of the cell resulting in their non functioning and hence death of the cell.</li> <li>c) If Golgi apparatus is removed from the cell, modification, sorting an packaging of materials coming from ER or synthesised in the Golgi apparatu itself, will not take place. Other functions carried out by the Golgi apparatu such as synthesis of complex sugars, formation of lysosomes, membrane biognesis etc. will also not take place, resulting in non-functioning and hence death of the cell.</li> <li>d) There wont be any kind of life forms because chlorophyll present inside the chloroplast is responsible for doing photosynthesis. If chloroplast is absent</li> </ul>	
photosynthesis doesn't take place and oxygen wont be released	4
38 a)Mixture of common salt and water. Mixture of milk and water.	4
b) Mixtures of chalk powder with water and milk with water.	
c) Mixture of common salt and water.	
d) Mixture of chalk powder and water.	
e) Mixture of chalk powder and water.	
39 (a)d (b)c	4
(c)a	
(d)c	
The end	