BSE Coaching for Mathematics and Science

X0817ZZ

SUMMATIVE ASSESSMENT - I, 2014 SCIENCE

Class - IX

Time Allowed: 3 hours

Maximum Marks: 90

General Instructions:

- 1. The question paper comprises of two Sections, A and B. You are to attempt both the
- 2. All questions are compulsory
- 3. All questions of Section-A and all questions of Section-B are to be attempted separately.
- 4. Question numbers 1 to 3 in Section-A are one mark questions. These are to be answered in one word or in one sentence
- 5. Question numbers 4 to 6 in Sections-A are two marks questions. These are to be answered in about 30 words each.
- 6. Question numbers 7 to 18 in Section-A are three marks questions. These are to be answered in about 50 words each
- 7. Question numbers 19 to 24 in Section-A are five marks questions. These are to be answered in about 70 words each.
- 8. Question numbers 25 to 33 in Section-B are multiple choice questions based on practical skills. Each question is a one mark question. You are to select one most appropriate response out of the four provided to you
- 9. Question numbers 34 to 36 in Section-B are questions based on practical skills are two marks questions.

SECTION-A

Which structure do the cork cells resemble as observed by Robert Hooke?

- The displacement time graph of a body is parallel to time axis. What will you infer about 1 the velocity of the body?
- If mass of a body is doubled, what happens to its acceleration under a given force?

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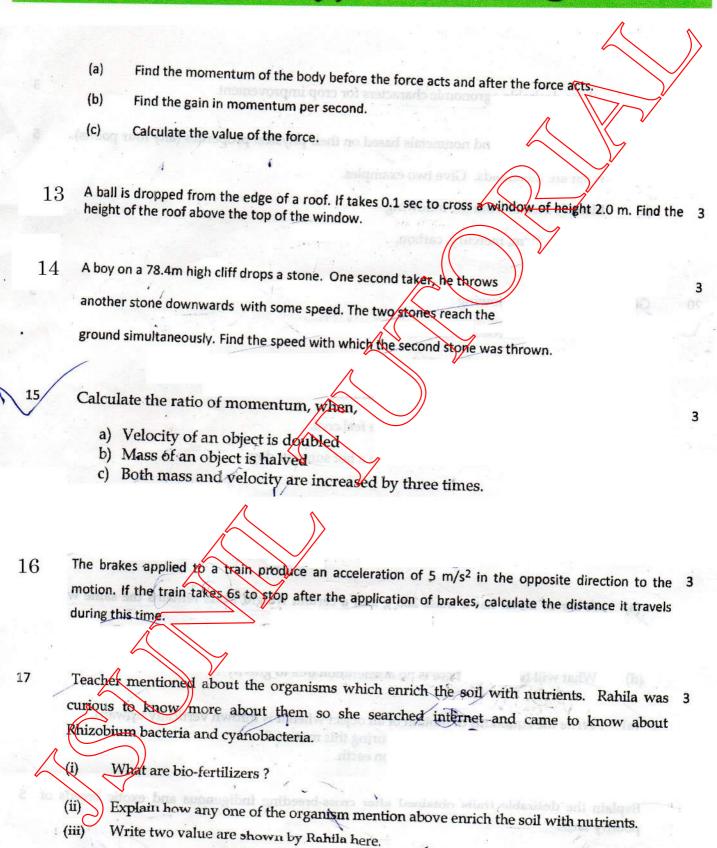
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A	What do you mean by dispersed phase and dispersing medium? Give an example each of (i)	2
	liquid in gas (ii) liquid in solid solutions.	
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	A second of the	2
5	Name the tissue in animals which carries out similar function as the following tissues do in	
	plants: (1) Epidermis	
	(2) Vascular Bundles	
	Also, write their function.	
	Consent learning	
.6	(a) Why the value of 'g' is greater at the poles than at the equator ?	2
0	(b) What is the value of 'g' at the poles?	
N 7	Explain the process of sublimation with the help of a diagram.	3
1./	8. Chieffing of contents of the contents of th	
	in about 30 words each.	
8	In cities drinking water is supplied from water works to your home. Draw a flow diagrams of	3
	water works for supply of pure drinking water.	
	al of each need These questions of the local	
	By taking into account the three states of the matter comment on the following:	3
19	by taking into account the titlee states of the matter comment on the ronowing.	
	(a) rigidity (b) compressibility (c) fluidity	
	tions.	
. /		
110	Give two features of each of the following tissues:	3
	(a) Tissue that stores fat in our body.(b) Tissue that receives and) transmit impulse in our body.	
*	(c) Tissue that sontrols contraction and relaxation of blood vessels.	8
	Which structure do the cork cells resemble as observed by Robert mosts	
11	TATIL at it the given it is an ag of :	3
11	What is the significance of:	
	(i) presence of cell sap in vacuoles	
	(ii) presence of SER in liver cells	
	ii) presence of SER in liver cells	
7	(iii) presence of ribosomes on RER	
	totaleration under a given joine i	
		2
212	The velocity of a body of mass 10 kg increases from 4 m/s to 8 m/s when a force acts on it for 2 s.	3

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	and the momentum of the best less than the first less than the best le	
18	Mention three desirable agronomic characters for crop improvement.	3
19	(a) Compare metals and nonmetals based on their physical properties (any four points).	5
	(b) What are metalloids. Give two examples.	
	(c) Identify metals from the following -	
	boron, sodium, mercury, carbon.	
E :	A boy on a 78. 4m and the strong consecond taker, he throws	5
20	Give reasons for the following:	
	(a) After rains wet roads dry quickly.	ď,
	(b) We prefer to wear cotton clothes during summer.	
	(c) Trees acquire more leaves during sammer.	
	(d) On pouring acetone on our palm we feel cool.	
	(e) People sprinkle water on his roof on a hot summer day.	
	A. "	
21	 (i) Define tissue. What is the utility of rissues in multicelluler organisims? (ii) Are plant and animals made of same types of tissues? If no, then. Write three points of 	ï
	difference.	
12	(a) A bar of metal has a mass 200 g and a certain weight Mass remains the same when	5
22	1 (Joseph But Woldhit Clectedses, VVIIV)	
	(b) What will be the change in weight on poles as compared to that at equator? (c) Where is the value of 'g' equal to zero on earth?	
	it i	
	(d) What will happen in there is no acceleration due to grave,	
	(a) Write the equations of motion of an object when it is thrown vertically upward.	5
23	(b) Which force accelerates a body during this mount?	
	What is the average value of 'g' on earth.	
24	Explain the desirable traits obtained after cross-breeding indigenous and exotic breeds of	f 5
24 (poultry birds.	

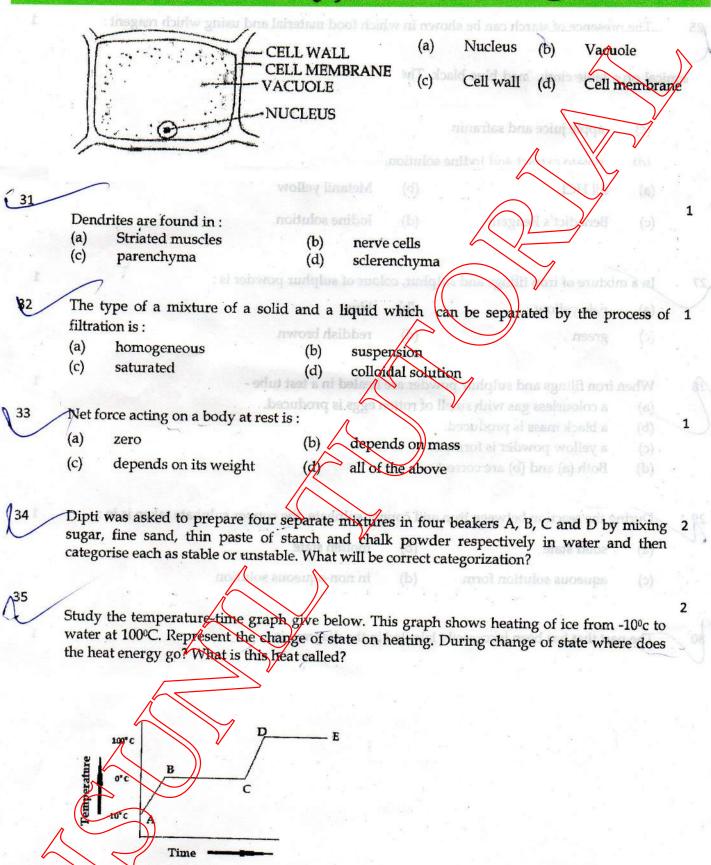
SECTION - B

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T	The pr	esence of starch can be shown	n in wh	ich food material and	using which reagent:			
-((a)	apple juice and Iodine soluti	on	CELL WALL				
		potato extract and safranin		CELL MEMBEAN VACUOLE				
((b)			STATISTIAN-				
((c)	apple juice and safranin						
((d)	potato extract and Iodine so	lution.					
			916)			
		spilled over a yellow chemic cal could possibly be:	cal on a	table cloth. The table	e doth turned blue black. If			
			-					
((a)	dil HCl	(b)	Metanil yellow				
((c)	Benedict's Reagent	(d)	lodine solution	Centrites are found in			
					(a) Striated muscles			
				land of autobase mounds				
/	In a mixture of iron filings and sulphur, colour of sulphur powder is:							
) of	(a)	pale yellow	(b)	blae				
((c)	green .	(d)	reddish brown	(a) homogenous			
			1	inflor	(c) saturated			
1	When	iron filings and sulphur pow	//					
	(a)	a colourless gas with smell	of rotte	n eggs is produced.	Not force activity on a bedy a			
	(b)	a black mass is produced		warsh till	otex (6)			
	(c)	a yellow powder is formed.			(c) depends on its weigh			
((d)	Both (a) and (b) are correct.		130 ms = 321 ms				
			en en e	A Marie Paris and San				
	Durin	the reaction between iron as	nd cop	per sulphate, the coppe	er suipnate taken is in .			
((a)	solid state	(b)	molten state	sugar, fine sand, thin past categorier each as stable or a			
-	(6)	aqueous solution form	(d)	in non-aqueous solu	ition			
			1	4.0				
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Prakash soaked 6g raisins in water and after 10 hours found that their mass has become 9g. 2 Determine the percentage of water absorbed by raisins.

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