## SUMMATIVE ASSESSMENT - I, 2014

AMITY, SAKE

## 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 sections.
- 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

How is a cartilage different from a bone?

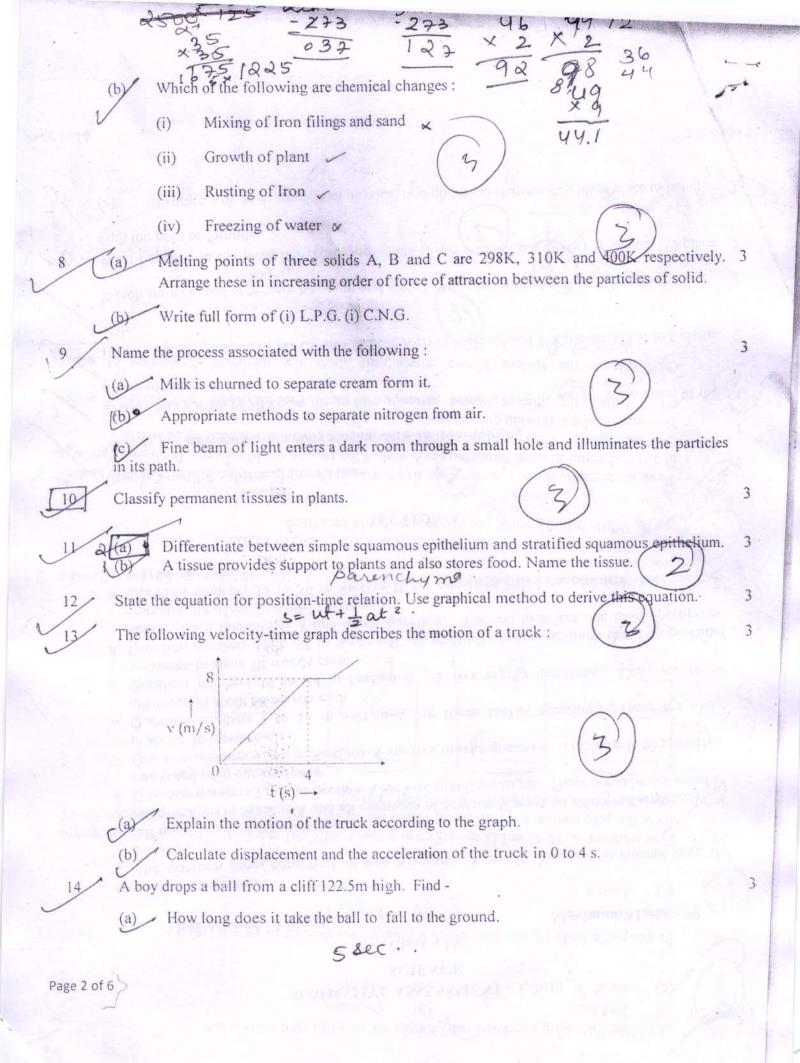
What is the acceleration of a body moving with uniform velocity?

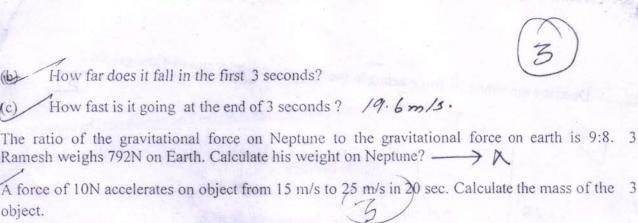
A body has a mass of 10 kg on the surface of earth. What will be its weight when taken to the centre of the earth?

How is the temperature in the Celsius and the Kelvin scale related? Convert 375 K to Celsius 2 scale.

Which stain is used to prepare an onion peel slide? Why do we need a stain to be added?

What happens to the force between two objects if the mass of one object is tripled. Explain 2 with the help of formula.





A force of 10N accelerates on object from 15 m/s to 25 m/s in 20 sec. Calculate the mass of the 3 object.

Mohit went to vegetable market with his father and saw many varieties of chillies, brinjal, 3 potato and tomatoes. He had some questions in mind. Being a student of class IX answer the following questions:

41 What is the need of producing such different varieties of crop plants?

(ii) Name the technique by which these are produced?

Define hybridization.

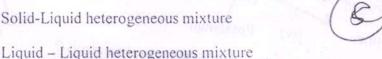
List any three factors that are needed for the varietal improvement in crops.

Tabulate the differences in the properties of three states of matter. Why we are able to compress sponge?

Differentiate between homogeneous and heterogeneous mixtures. Give an example of each of 5 the following -

Solid-solid homogeneous mixture

Solid-Liquid heterogeneous mixture



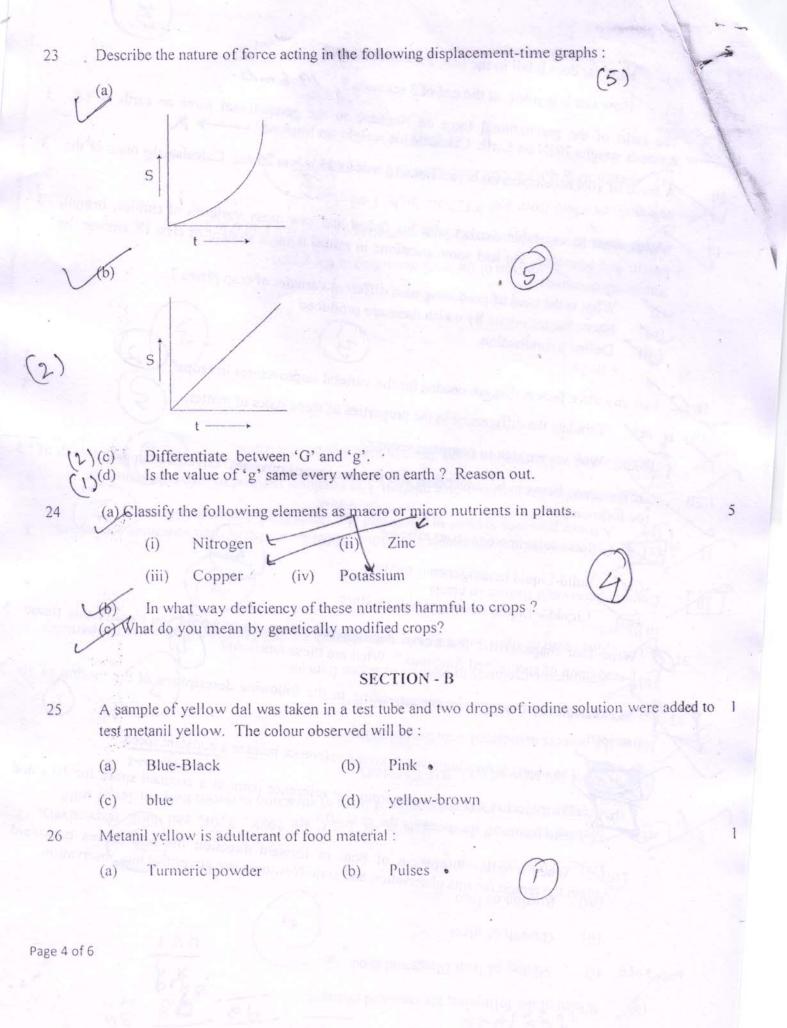
Write four characteristic features of Parenchyma tissues. How would you classify this tissue 5 based upon its specialized functions? What are these functions?

Sketch velocity-time graphs corresponding to the following descriptions of the motion of an 5 object.

The object is moving away from the reference point at a constant speed.

The object is moving away from the reference point at a constant speed for 10 s and then increases its speed for the next 10 s.

When a sailor jumps out of boat in forward direction the boat moves backward. Explain the reason for this observation and state Newton's law governing this observation.



	(c)	Spices	(d)	Seeds					
27	In a mixture of iron filings and sulphur, colour of sulphur powder is:								
1	(a)	pale yellow •	(b)	blue					
(1)	(c)	green	(d)	reddish brown					
28	Iron sulphide obtained by heating iron filings and sulphur powder is a:								
0	(a)	black powder	(b)	hard black mass .					
(1)	(c)	yellow solid	(a)	grey solid					
29	Crystals of copper sulphate are heated, they turn white. This colour change is due to:								
	(a) loss of copper ions								
	(b)	loss of sulphate ions		The state of the s					
	(c)	decomposition of copper sul	phate						
	(d)	loss of water of crystallisation	on						
30	The cell organelle which is not found in human cheek cells is:								
	(a)	Cell membrane	(b)	Nucleolus					
0	(c)	Cell wall	(d)	Cytoplasm					
		- Lathba ad play							
31									
		a committee of the contract of							
				months was a solid balance of					
	5	750 C - MINISTER							
		3							
on.		The same of the Company of the Compa	241201	- union median poli consti					
	Part of nerve cell has been drawn here. The correct labelling for 'A' is:								
<b>U</b> .	(a) cilia (b) flagella								

						1
32 1	Out of the following	no substance which	does not under	go sublimation is:		
San Allendar	(a) Dry Ice		(b) Campho			- 1
( )	(c) Sand		(d) Iodine			
11/1	(0)		3017		OSUBLINIA I	
()	D C - h - d	Annual and a Constant of	it	change in state is c	alled :	1
53				change in state is c	ancu.	
(3)	(a) Momentun		(b) Energy			
((1)	(c) Inertia ·		(d) Accelera	ition		
		* * * * * * * * * * * * * * * * * * * *				
34	Four students A, I	3, C and D are ask	ed to prepare co	olloidal solutions.	The following diag	rams 2
	show the preparat	ion done by them.	Name the stud	ent, who will be a	ble to prepare coll	oidal
1/	solutions. Write tv	vo properties of col	loidal solution.			
0.				1	$\sqrt{}$	
					7	*
(0)				- /		
(1)			-		-	
			1	Janes 1		
	Starch powder स्टार्च पाउडर	Sugar चीनी	Salt नगवः	Egg अंडा		
	A /	В	C	D		
	-					
	/ Indexide				A 115 A 11 A 11 A 11 A 11 A 11 A 11 A 1	1
35/		to determine the	boiling point	of water, state re	ason for the follo	owing 2
1	precautions:-	Colombia de la colomb	. I d - et touale tle	a sidas af baskar		
/r.s	F .	of thermometer sho ling water, pumice				
	Willie bor	ing water, putifice	stories should be	Julius.		
		D 10	~		The relains were s	calcad 2
36/	Three students A	B and C were give	en live raisins e	ach of equal mass. raisins for 10 minu	ites B for overnial	nt and
	C for 60 minutes	Then they calculat	ed the percentag	ge of water absorbe	d by raisins.	
	Now answer the f	following questions	S:-			
1	(a) Name the	e student whose	raisins will sh	now the maximum	n percentage of	water
(2)	absorbed.		e se una robes bre	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1		
			raisins will sl	now the minimum	n percentage of	water
	absorbed.	4				