

**PROVINCIAL DEPARTMENT OF EDUCATION - NORTH WESTERN PROVINCE** 

# Second Term Test 2018

Gr	ade 10	SCI	ENCE - I	Time : 1 hour
N	lame / Index No.			
No	as correct or most a <ul> <li>Mark a (×) on the n</li> </ul>	tions 1 to 40, pick o appropriate. umber correspond	ling to your choice in the	, (2), (3), (4) which you consider e answer sheet provided. t. Follow them carefully.
01.	A monosaccharide is, (1) Sucrose	(2) Maltose	(3) Cellulose	(4) Fructose
02.	Unit of the moment is, (1) Nm <sup>-1</sup>	(2) N/m	(3) Nm	(4) Nm <sup>-2</sup>
03.	Select the correct stateme golgi complex (1) only in plant cell (2) protein synthesis (3) maintain water balan (4) secreation	Educióni pro- seci	ribosome	59
04.		melting point. ot conduct electricit	b. Make lattice. y in aqueous solution.	අධියාපන (4) a, b and c
05.	(1) halved the number of	f chromosomes in n nosomes of a species n chromosames.	ucleus. s is constant generation to	
06.	The substance in b plate i (1) 2mol of CaCO <sub>3</sub> (2) 2 mol of NaCl (3) 2 mol of H <sub>2</sub> O (4) 2 mol of C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>	s,		200g a b plate blate

07. Correct order of the organizational level of blood circulatory system.

heart tissue (1) heart muscle cell heart blood circulatory system (2) heart tissue heart muscle cell blood circulatory system heart (3) heart muscle cell heart heart tissue blood circulatory system (4) blood circulatory system heart muscle cell heart tissue heart

08. An object travels to east and stop within 5 minute. Then it turns back. The displacement time graph is,



- (1) Static frictional force, limiting frictional fore dynamic fractional form.
- (2) Dynamic frictional force, limiting frictional fore, static fractional form.
- (3) Limiting frictional force, dynamic frictional force, static fractional form.
- (4) Static frictional force, dynamic frictional force, limiting frictional fore .
- 18. Find the magnitude and direction or resultant force in above figure,

19.	To make the equilibrium (1) apply anti clockwise (2) apply anti clockwise (3) apply clockwise mo (4) apply clockwise mo	e moment using 50N. e moment using 5N. ment using 5N.		(5kg)
20.	The scientist who introdu (1) Avagardro	uce number of atoms in 1 n (2) Demetri Menderleaf	, ,	(4) Neil Bour
21.	Correct statement about (1) It is infected by bact (3) Infected by sexual second	eria.	<ul><li>(2) It is not infected by</li><li>(4) Cured by medicines</li></ul>	
22.	Which molecule has high (1) CH <sub>4</sub>	hest polarization in follow: (2) CO <sub>2</sub>	ing covalent bonds, (3) H <sub>2</sub> O	(4) CCl <sub>4</sub>
23.	Sperms temperaly stord (1) epididymis	in, (2) vas deferens	(3) prostrate gland	(4) cooper glands
24.	Select two element resp configuration, (1) Ca and S	ectfully which release elec (2) O and Cl	ctrons and gaining electrons (3) Mg and Al	cons to get staible electronic (4) Al and Ne
25.	b Wrappi c Fixing t	twig without damaging. ng the place from bottom to he twig to the stock to cont e the wrap when the twig is	tact cambium.	(4) c, b, a, d
26.	What is the common con (1) Water, Salt (3) Urea, Water	nponent of sweat and urine	in human body, (2) Salt, Urea (4) Carbon dioxide, Wa	ıter
27.	statement about the moti (1) When the object is g (2) Highest velocity is r	on. oing upward velocity is de heights point. the moment of fell down.		Il position. Select the correct
28.	The atomic number of el (1) 12	ement in 3rd period and 4th (2) 14	h group in periodic table. (3) 16	(4) 18
29.	M is not a standard, syml (1) Al د.	$col of M_2(CO_3)_3 element 'M_3$ (2) Mg $ca$ .	<b>I'</b> should be, (3) N ය.	(4) Ca ය.
30.	Find the velocity of an ob (1) $40 \text{ ms}^{-1}$	bject which has $20 \text{ g}$ mass (2) $60 \text{ ms}^{-1}$	and 1.6 kg ms <sup>-1</sup> in momen (3) 80 ms <sup>-1</sup>	ntum, (4) $160 \mathrm{ms}^{-1}$

31.	Elements contain (1) Al and Mg	allotropes are, (2) C and O	(3) C and S	(4) S and O
32.	Dysaccharide is molecule?	made b 2 monosaccharides	. What are the monosac	charides used to make lactose
	(1) fructose, glue	cose	(2) galactose, gluco	se
	(3) fructose, gala	actose	(4) glucose, glucose	e
33.	The incident relev	vent to the Newton's third law	, is	
55.	a	oars used to rawing a boat	13,	
	a b	release a sky craker		
	c b	release an air filled balloon		
	(1) a and b	(2) b and c	(3) a and c	(4) a, b and c
			(5) a and C	(4) a, 0 and C
34.	Not a function of			
	(1) help to protei	•		
	(2) importance f	for evolution		
	(3) stord genetic	information in all virus		
	(4) transition of	genetic information from ger	neration to generation.	
•	Answer question	n number 35 and 36 using fo	llowing velocity time gra	aph.
	Velo	ocity (ms <sup>-1</sup> )		
		15 Educatio	n 🔴	
		15		
		0 10	20  30 time (s)	85(6)80
35.	Displacement of	the object is,		tmm 102)
	(1) 750  m	(2) 600 m	(3) 450 m	(4) 300  m
36.	The motion betwe	een 10th second and 20the sec	cond is,	
	(1) at rest	(2) acceleration	(3) deceleration	(4) uniforme velocity
37.		encies of vitamins relevent to		
	(1) C and K	(2) A and C	(3) K and A	(4) D and A
38.	Example of equil	ibrium of force is,		
	(1) Pull a vehicle	e using an other vehicle.	(2) Pulling a fishing	gnet.
	(3) A stone rollin	ng on ground.	(4) Measure the mas	ss of spring balance.
39.	A runner complet	ed two rounds in 200, tract Fi	nd the distance and displa	acement of him respectively
57.	(1) 200 and 400 r		(3) 400 m and 200 m	· ·
40.		ly affected for increasing har		us diseases rapidly.
		ises and using processed food		
	-	n of fruits and having types of	-	
	(3) increasing da	aily needs and lack of lesure ti	me.	
	(4) increasing nu	umber of vehicles and pollution	on of atmosphere.	



#### **PROVINCIAL DEPARTMENT OF EDUCATION - NORTH WESTERN PROVINCE**

# Second Term Test 2018 **SCIENCE - II**

#### Grade 10

Name / Index No.

#### **Instructions:**

- Write with clear hand writing.
- Answer four questions in part A using provided spaces. •
- Write only selected three questions in part B.

#### Section - A

(01) (A) (i) Invertibrates can be divided in to five groups according to their common features. Fill in the table given below relavent to their features. (02m.)

Invertebrates	Example	Living environment
Cnidaria	Hydro	aquatic
Annelida	(a)	aquatic
(b)	Snail	aquatic / terrestrial
Arthropoda	(c)	aquatic / terrestrial
(d)	Star Fish	aquatic

(ii) Water is an essential medium for the maintenance of living organisms write two specific features of water. (01m.)

(iii) Write two main features of Phylum arthropods.

(01m.)

•••••	•••••	•••••	•••••	•••••		•••••
•••••	•••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •	

Time: 3 hours

	(iv)	Write the type of body symmetry of following organismal
		1. Snail
		2. Star fish
(B)	(i)	Sea water is a mixture of ionic compounds. It Cantains such as water, sodium chloride, and Potassium Chloride. Classify above compounds as Ionic compounds and covalent compounds.
		1. Water
		2. Sodium Chloride
	(ii)	Briefly explain how to arrange $Na^+$ and $Cl^-$ ions in Sodium lattis. (02m.)
	(iii)	Write a special Chemical property that can be gained by Sodium Chloride due to its lattice Structure. (01m.)
		Education
(C)		have to plain an activity to demonstrate that the Frictional force depends on the nature of urface in contact. You have provided a spring balance, table and strings for the activity.
	(i)	Write another two requirements except given above. (01m.)
	(ii)	State two instances that are taken to record your observations. (02m.)
	(iii)	Write an assumption that you made in above activity. (01m.)
	(111)	
	(iv)	Write a factor that should be remain constant during the activity. (01m.)

(02) (A) A group of students visited a filed trip to investigate vegetaive propagation and sexual reproduction of plants. Given below are some plants which they observed.

Curry leaves, Akkapana, Shoe flower, Orchid, Cashew, Coconut, Sesbana, Madatiya (Read bead), Ladies fingers, Ginger, Habarala

(i) Select the plants which reproduce by underground stem. From above state the type of underground stem to which it belong? (01)

8	8
Name of the plant	Type of underground stem

(ii) Write two advantages of undeground stems instead of vegetative propagation. (01 m.)

(iii) The sexual structure of a plant is flower. What is the most suitable plant from above to examine the sexual structure of it. (01 m.)

.....

(iv) Diagram given below shows a gynoecium and Andriecium of a flower.

	Education B B C C C C C C C C C C C C C C C C C
(a)	Name A, B, C and D of above diagram.
	A B
	C
(b)	Define the word pollination using letters given in the diagram. (01 m.)
(c)	Write two steps can be occured in a flower from pollination to fertilization. (Use
	given letters) (02 m.)
(d)	Hercogamy is a adaptation which avoid self Pollination of flowers. Name a plant
	which shows hercogamy. (01 m.)

(e) What is known as monoecium plant. State a plant which belongs to that types from above list. (01m.)

.....

(v) Given below are some vegetative parts of a plant. Write corresponding plants from above list of the given parts. (01m.)

Vegetative part	Name of the plant
Root	
Stem cutting	

(B) Given below are some fruits and seeds which collected to inrestigate about method of dispersal of fruits and seeds.

Olicastor, Gammalu, Milk weed (wara), Olinda, Lotus, Red bead (Madatiya)

- (i) State a seed which adapt to dispears by means of both explosive mechanism and animals? (01m.)
  - .....
- (ii) Write a seed which dispersed by means of wind and state two adaptation of it ti dispers by wind. (01m.)
  - (a) Name of the seed .....
  - (b) Adaptation .....
- (iii) Spreding away of the fruits and seeds from the mother plant during the dispersal. Write two requirements which fullfil the plant from above process.(02m.)

(03) (A) Given below is a formation of a compound by binding two atoms.



Grade 10 Pl	ROVINCIAL DEPARTMENT OF EDUCATION - NORTH WESTERN PROVINCE Science -	II Paper A
(iv)	Draw a Lewis structure of above compound.	(02 <b>m</b> .)
(v)	Write a formula of a compound with covelant double bands.	(01 <b>m</b> .)
$(\mathbf{D})$ It is		1
	cumbersome to use common measuring unit of quanttifiation of atoms of e	
(i)	What is the name of that unit.	(01 <b>m</b> .)
(ii)	Name the element that should be used as above measuring unit.	(01 <b>m</b> .)
(iii)	Define the mass of magmisium relative to above unit.	(02 <b>m</b> .)
	Education	
(iv)	Calculate the relative moleculer mass of $H_2SO_4$ (H=1, S=32, O=16)	(02m.)
	අධ්යාපන	
		•••••
(v)	State an elemant with lawest mass in $H_2SO_4$ molecule	(01 <b>m</b> .)

(04) Diagram below shows the Jak fruit with 10kg of mass which hanging on a branch. At the momant it detaches from the stak takes 2 seconds to fall down on the earth.  $(g=10 \text{ ms}^{-2})$ 



(i) Explain the reason for Jak fruit does not fallan down relative to equilibrum of forces. (01m.)

.....

(ii)	Dra	w a rough diagram of Jak fruit and mark the forces which applied on it.	(02m.)
(iii)	Acc	ording to the mass of Jak fruit.	
()	(a)	What is the name of the force which exarted downword on fruit.	(01m.)
			•••••
	(b)	Find the Value of that force.	(01m.)
(iv)	Finc	l the resultant force of Jak fruit before it fallon down on earth.	(01 <b>m</b> .)
(v)	Wri	te two requirements should be fallfil to remains in equilibrium of Jak fruit.	(02m.)
(11)	1. 2.	Ecucation Draw a velocity time graph to illustrate the motion of Jak fruit which	
(1)		velosity ms <sup>-1</sup>	(02m.)
		→ time s	
	(b)	What is the conclusion you can arised with in the shape of the graph?	(01m.)
(vii	)The	Jak fruit takes two seconds to fall to the ground.	
	(a)	Calculate the height to the Jak fruit few the ground.	(02m.)
	( <b>b</b> )		
	(b)	Find the velocity of Jak fruit when it reaches the grand.	(02m.)
	(0)		

#### PROVINCIAL DEPARTMENT OF EDUCATION - NORTH WESTERN PROVINCE

Grade	10	Paper B S	cience - II
(05) (A)	Giv	ven below is a Classification of vertebrates	
		Pisces Amphibian Reptilia Aves Mammalia	
	(i)	What feature of organisms can be used to introduce it as Vertebrates.	(01 <b>m</b> .)
	(ii)	Classify given organisms in to two groups as worm blooded (Homiothern blooded (Pokilothermic)	nic) and Cold (02m.)
	(iii)	) Write corrosponding animal group of vertebrates given bellow. (Frog / E Lizard)	Bat / Tilapia / (02m.)
	(iv)	) Main Locomotive method of aves is flying. Write two adaptations which t fly. (02m.)	hey shows to
	(v)	According to the binomial nomenclature name of the man is Homosapeian convections used in binomial nomenclature.	ns. Write two (02m.)
	(vi)	) Write a differance between natural classification and a artificial classificat	ion. (01m.)
(B)		e most prominent organisms with a celluler organization belong to domain E we the ability to live in different environments.	ukarya. They
	(i)	(a) Name the Kingdom which algae belongs.	(01 <b>m</b> .)
		(b) Write another organism which belongs to kingdom given above inst (01m.)	tead of algae.
	(ii)	(a) What is the compound that contributes to build up cell walls of fungi.	(01m.)
		(b) Explain briefly, The effect of fungi to the equilibrium of environment	. (01m.)
		(c) What is the name of fungi which used in bakery products.	(01 <b>m</b> .)
	(iii)	) (a) Name the kingdom which belongs to domain Eukarya consist o organisms have the ability to photosynthesise.	f multicellur (01m.)
		(b) Given below are non flowering plants belongs to the above kingdom.	
		Poganetum Pinus Sellagenlla Cycas	
		Classify above plants in to categories as Non flowering seed pla flowering seedless plants.	ants and non (02m.)
		(c) Write two features of non flowering seedless plant.	(01 <b>m</b> .)

(d) Write a difference between monocotyledon plants and dicotyledon plants. (01m.)

(06) (A) Given below is a experimantal set-up used in laboratory.



- (iv) How many atoms are there in 20g of NaOH. (01m.)
- (v) Write the unit of moler mass. (01m.)
- (vi) Write two instruments can be used to measure the mass of a substance in laboratory. (02m.)

(07) (A) Diagram shows a rail gate used in railway crossing. It is operated by a light weighted rod which fixed a string to it 60cm away from X. The load of 20kg is hang on A and length from X to A is 120cm. The length from B to C is 540cm.



	(i)	What is the letter denoted by axis of rotation of above ABC rod.	(01 <b>m</b> .)
	(ii)	If the length of A to X is decreases. The load hang at B also	
		(a) Do you agree with the statement given above.	(01 <b>m</b> .)
		(b) Write the reason for your answer.	(01m.)
	(iii)	Sugges another method to decrease the force applied on B.	(02 <b>m.</b> )
	(iv)	Calculated the force required to close the gate by pulling the string at B.	(02 <b>m</b> .)
	(v)	The rod become equilibrum in horizentaly by pulling the string. Calculate the r	
		force exerted on X by the suporter.	(02m.)
(B)	Ifth	e sting has been broken there will be used another CD string to close the gate.	
	(i)	What is the minimum force should be applied on CD string.	(02m.)
	(ii)	Mention the principal of physics that can be used to find the answer above.	(01 <b>m</b> .)
	(iii)	Write an expression for that.	(01 <b>m.</b> )
	(iv) What is the condition must be satisfied for a rod to remain in equilibrium.		(02 <b>m</b> .)
	(v)	(a) Write two places where energy wastage can be occured.	(02m.)
		(b) Write energy transformation can be found in the instance.	(01 <b>m</b> .)
	(iv)	Write two strategies can be sued to prevent the energy wastage of it.	(02m.)

(08) (A) The table given below shows some observations gain by the students. Who take part in an activity ti investigate about characteristics of organisms.

Activity	Observation
a Touch the leaves of mimosa	Show the sleep movement.
plant at day time.	
b Keep the potted plant	The plant apex grows to the
at a window	direction of the sunlight.

- (i) Mention the characteristic demonstrated by the activity. (01m.)
- (ii) Write stimuli and respond seperatly in above activity. (02m.)
- (iii) After a week it can be seen the plant grow out from the window. Define what is growth. (02m.)
- (iv) Respiration is a charactaristic of organism. Given below is a set up used to show absorption of Oxygen in respiration.



kalvi.lk

Setup B

Grade 10 PROVINCIAL DEPARTMENT OF EDUCATION - NORTH WESTERN PROVINCE Science - II			
Question No. 08			
(a)	Write a name of a seed can be used here on.	(01 <b>m</b> .)	
(b)	Write observations in A and B respectively.	(01 <b>m</b> .)	
(c)	Explain your observation due to the function of KOH in set up A.	(01 <b>m.</b> )	
(d)	In which organelle take place the cellular respiration.	(01 <b>m</b> .)	

- (e) During the respiration it absorb Oxygen and relized Carbon dioxide. What is the laborotoy regent can be used to identify carbon dioxide. (01m.)
- (B) The diagram shows a boat remain on water at rest. The weight of it is 200N. The resulted force applied on boat is 5000N while it is moving with uniform velocity towards A. The force of 30N applied on boat as reactent force againest the motion of it.



- (i) (a) State the direction of force applied by the engine to move it toward the A using letters A and B. (01m.)
  - (b) Write the reason for your answer. (02m.)
- (ii) Write the action and reaction of the boat during the motion. (02m.)
- (iii) What is the force produce by the engine while it more forward. (02m.)
- (iv) Calculate the acceleration of boat. (02m.)
- (v) What change can be occurred in accleration of boat two passengers get on the boat. (01m.)
- (09) (A) Verious element are used in many instances according to its different properties.

(i)	Write two chemical properties can be identified in metallic elements.	(02)
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- (ii) Write can element stored in parfin wax. (01m.)
- (iii) Write the observation can be obtained by cutting above lement in to pieces and exposed it in to air. (01m.)

(iv) Write two physical properties of magnesium.	(02m.)
(v) Write two observation can be obtained by burning in air.	(02m.)
(vi) Write the element which used to volcanizing rubber.	(01 <b>m.</b> )
(vii) Mention the colour of above element.	(01 <b>m.</b> )

(B) A driver and a passenger traveling in a vehicle which moves with uniform velocity. The total mass of the vehicle with the two persons is 1000kg. Saddnly it applying brake and stop the vehicle. The velocity time graph for its motion is given below.  $(g = 10 \text{ ms}^{-1})$ 



(i) Write an instance where couple of force is used by the driver. (01m.)

- (ii) The distance travers by the vehicle is 600m before the applying brake on it. Calculate the velocity (V) of the vehicle. (02m.)
- (iii) Calculate the reaction force which exarted on ane wheel of the vehicle by road. (01m.)
- (iv) What physical property of tyres contributes to stop that vehicle properly. (01m.)
- (v) Find the decelaration of the vehicle using the graph given above. (02m.)
- (vi) Find momentum at the instance when it travelled with uniform velocity. (02m.)
- (vii) What can be happent to the passenger due to moment of force while applying brakes. (01m.)

Grade	10	Second Term Test 2018	SCIENCE		
Answer paper - Part I					
01.(4)	02. (3)	03. (4) 04. (3) 05. (4) 06. (1) 07. (1) 08. (2) 09. (2) 1	0.(2)		
11.(3)	12. (4)	13. (2) 14. (4) 15. (3) 16. (1) 17. (1) 18. (2) 19. (4) 2	0.(1)		
21.(3)			0. (3)		
31.(3)	32. (2)		0.(1)		
		Part I - A	10  x  2 = C.80		
(01) (4	A) (i)	(a) Earth worm / Leeach / Nereis			
		(b) Mollusca			
		(c) Scorpians/Milipacle			
		(d) Echonodarmata (two marks for fou	r answers 02m.)		
	(ii)	Correct two propeties of water.	(01 <b>m.</b> )		
	(iii)	Bilateral symmetry			
		• Triploblastic	(01 <b>m</b> .)		
	(iv)	1. Snail - Bilateral symmetry			
		2. Star fish - Penta radial symmetry	(01 <b>m</b> .)		
(1	B) (i)	1. Water - Covalent			
, ,	, ()	2. Sodium chloride - Ionic	(02m.)		
	(ii)	Iron arrangeld around Na <sup>+</sup> and 6 Na <sup>+</sup> arranged around Cl <sup>-</sup> ion.	(02m.)		
	(iii)	Having high boiling points.	(01m.)		
((	C) (i)	Different types of sand papers, wooden block	(01m.)		
	(ii)	Rulling with rough surface / Pulling with smooth surface or suitable answer.	(01m.)		
	(iii)	Frictional force increases due to rough surface			
	(iv)	Perpendicular reaction	(01m.)		
	(1)		(01111.)		
(02) (4	A) (i)	Ginger - Rhizome			
	, ()	Colacosia - Come	(01 <b>m</b> .)		
	(ii)	Perination / Storage of food	(01 <b>m</b> .)		
	(iii)	Shoe flower	(01m.)		
	(iv)	(a) A - Stigma B - Style			
	()	C - Overy $D$ - Anther (4x <sup>1</sup> / <sub>2</sub> )	(02m.)		
		(b) Anther (D) diposited on A stigma	(02ml.)		
		<ul><li>(c) diposited on (A) stigma going along the B and combine with C.</li></ul>	(01m.) (02m.)		
		<ul><li>(d) Orchid or any correct answer.</li><li>(a) The plant beer both staminate and nistillate flavors.</li></ul>	(01m.)		
		(e) The plant bear both staminate and pistillate flowers.	(01m.)		
		Suitable example	(01 <b>m</b> .)		
	(v)	Root - Curry leaves			
		Stem cutting - Shoe flowers $(\frac{1}{2}x^2)$	(01 <b>m</b> .)		

## Grade 10

#### Second Term Test 2018

SCIENCE

#### Answer paper

(B) (i)	Madatiya	(01 <b>m</b> .)
(ii	) suitable answer	(01 <b>m</b> .)
(ii	i) suitable answer	(02 <b>m</b> .)
(03) (A) (i)	$x - Oxygen / y - O_2$	(02 <b>m</b> .)
(ii	) x-2 y-1	(02m.)
(ii	i) Covalent	(01 <b>m.</b> )
(iv		(02m.)
(v	) O <sub>2</sub>	(01m.)
(B) (i)	Relative atomic mass unit	(01 <b>m</b> .)
(ii	) Carbon $/ {}^{12}_{6}C(01m.)$	
(ii	i) Ratio between Mg and Relative atomic mass unit	(02m.)
(ir	r) 98 (02m.)	
(v	) Hydrogen/H	(01m.)
(04) (i) Tl	e force exerted upward from stak is equal to the weight of it.	(01m.)
(ii) [	Tension weight	(02m.)
(iii) (a	Weight	(01m.)
(b	$10 \ge 10 = 100$ N	(01 <b>m</b> .)
(iv) Ze	ro / 0 (01m.)	
(v) Fo	rces are aligned along the same line / opposite	(02m.)
(vi) (a)	$V / ms^{-1}$ naming the axis (01m.)	
	shape (01m.) Time / s	(02m.)
	Uniform accelaration or suitable answer.	(01m.)
(vii) (a)		(02m.)
(b	Substitution (01m.) answer (01m.)	(02m.)

Grade 10			Second Term Test 2018	SCIENCE
Answer paper Section - B		Answer paper Section - B		
(05)	(A)	(i)	Presence of vartrible column	(01m.)
		(ii)	Worm bloded cold bloded	
			Piscase Aves	
			Amphibla Mamalia	
			Reptilia	(02 <b>m</b> .)
		(iii)	Amphibia, Mamalia, Piscase, Reptilia	(02 <b>m</b> .)
		(iv)	Fore legs become winds / light weighted endoskeleton / streamlined body shape	e (02m.)
		(v)	• The first epithet is generic name and the second epithet is the specifics. • The generic name is capital.	ne first letter of (02m.)
		(vi)	any correct answer	(01 <b>m</b> .)
	(B)	(i)	(a) Protista	(01m.)
			(b) any correct answer	(01m.)
		(ii)	(a) Chitin	(01 <b>m</b> .)
			(b) decompose organic matter	(01m.)
			(c) Yeast	(01 <b>m</b> .)
		(iii)	(a) Plante	(01 <b>m.</b> )
			(b) Seed plant Seedless plant	
			Cycas O Poganatum/Pinus sellogeulla	(02m.)
			(c) any correct answer	(01 <b>m</b> .)
			(d) any correct answer	(01 <b>m</b> .)
(06)	(A)	(i)	To investigate current flow through the solution	(01 <b>m</b> .)
		(ii)	A-Salt solution	(02 <b>m</b> .)
		(iii)	Presence of ions	(02 <b>m</b> .)
		(iv)	SaH - Ionic bonds Glucose - Covalent bonds	(02 <b>m</b> .)
		(v)	High boiling points and any two correct answers.	(02 <b>m</b> .)
		(vi)	Correct dot corrs diagram	(02 <b>m</b> .)
	(B)	(i)	• Given mass of NaOH (01m.)	
			• Moler mass of NaOH (01m.)	(02 <b>m</b> .)
		(ii)	0.5mol (01m.) substitution (01)	(02m.)
		(iii)	$6.022 \times 10^{23}$	(01 <b>m</b> .)
		(iv)	$6.022 \times 10^{23} \times 3$	(01m.)
		(v)	gmol <sup>-1</sup>	(01m.)
		(vi)	Triple beam balance / Chemical balance	(02m.)

## Grade 10

#### Second Term Test 2018

SCIENCE

#### Answer paper

(07)	(A)	(i)	x	(01 <b>m</b> .)
		(ii)	(a) Yes/agreed	(01 <b>m</b> .)
			(b) less antiblack wise moment	(01 <b>m</b> .)
		(iii)	Decresing the weight of W.	(02m.)
		(iv)	$400 \mathrm{N}  \left(1.2 \mathrm{x} 200 = \frac{240}{0.6}\right)$	(02m.)
		(v)	600N (200+400)	(02m.)
	(B)	(i)	$200 \text{ x} \frac{120}{100} = \text{ force x } 600$	
			240 = force  x  600	
			$\frac{240}{600} = \text{force}$	
			force = $0.4 \text{ N}$	
				(02m.)
		(ii)	moment	(01 <b>m</b> .)
		(iii)	moment = force x parpendiculer distance to the axis of rotation	(01m.)
		(iv)	Anticlock wise moment = Clock wise moment	(02m.)
		(v)	(a) At $x$ b At pulley	(02 <b>m</b> .)
			(b) Kinetic energy Heat energy/sound E ධ්වනි ශක්තිය	(01 <b>m</b> .)
		(vi)	Use bearing / Apply oil or greese	(02 <b>m</b> .)
(08)	(A)	(i)	Movements	(01m.)
		(ii)	Stimuli - Contact Response - cold leaves අධියාපන	(02m.)
		(iii)	Increasing dry mass irrivisibley in living cells.	(02 <b>m</b> .)
		(iv)	(a) Green gram seeds	(01 <b>m</b> .)
			(b) Colured water rises up in setup A. Non change is setup B.	(01 <b>m</b> .)
			(c) The volume of Oxygen obsorbed is equal to the amount of $Co_2$ relised. (01m.)	
			(d) Mitocondria	(01 <b>m</b> .)
			(e) Colourles lime water	(01 <b>m</b> .)
	(B)	(i)	(a) To B direction	(01 <b>m</b> .)
			(b) explanation using newtons 3rd law	(02 <b>m</b> .)
		(ii)	Action - force exarted by engine	
			Reaction - force exarted by water to the bolt.	(02m.)
		(iii)	$5000 + 30 = 5030 \mathrm{N}$	(02m.)
		(iv)	$5000 = a \times 200$	
			$\frac{5000}{200}$ = a	
			$25 \text{ms}^{-1} = a$	(02m.)
		(v)	Decreasing the acceleration	(01m.)

Grade 10

#### Second Term Test 2018

SCIENCE

#### Answer paper

(09) (A)	(i)	Two chemical featers	(02m.)
	(ii)	Na/Sodium	(01 <b>m</b> .)
	(iii)	Decresing luster	(01 <b>m</b> .)
	(iv)	Light relighted, lustrous nature	(02m.)
	(v)	Bright flame / White powder	(02m.)
	(vi)	Sulpher/S	(01 <b>m</b> .)
	(vii)	Yellow	(01m.)
(B)	(i)	Steering wheel	(01m.)
	(ii)	600=Vx10 V=60	(02m.)
	(iii)	$\frac{1000 \text{ x } 10}{4} = 2500 \text{ N}$	(01 <b>m</b> .)
	(iv)	Cutting groves / friction	(01 <b>m</b> .)
	(v)	පුස්තාරය ඇසුරින් නිවැරදි ගණනය කිරීමකට	(02m.)
	(vi)	ස්කන්ධය x පුවේගය	
		$1000 \ge 60000 \text{ kgms}^{-1}$	(02 <b>m</b> .)
		Co	

# ONLINE CLASSES - 2025 WEW ADMISSIONS ம் தவனை வகுப்புகள்

# தரம் 6 முதல் O/L வரை

# அனைத்து பாடங்களும் ஒரே கல்வி நிறுவனத்தின் கீழ் ...



இலங்கையின் எப்பாகத்திலிருந்தும் ZOOM APP மூலம் எமது வகுப்புகளில் இணைந்து கொள்ள முடியும்.



