

PROVINCIAL DEPARTMENT OF EDUCATION - NORTH WESTERN PROVINCE

Second Term Test 2018 SCIENCE - I

Grade 10 SCIENCE - I Time : 1 hour

Name / Index No.

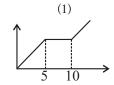
Note: • Answer all questions.

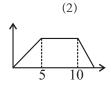
- In each of the questions 1 to 40, pick one of the alternative (1), (2), (3), (4) which you consider as correct or most appropriate.
- Mark a (×) on the number corresponding to your choice in the answer sheet provided.
- Further instructions are given on the back of the answer sheet. Follow them carefully.

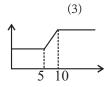
	• Furthermstruc	ctions are given on	the back of the answer snee	t. Follow them carefu
01.	A monosaccharide is	(2) Maltose	(3) Cellulose	(4) Fructose
02.	Unit of the moment is	s,		
	(1) Nm ⁻¹	(2) N/m	(3) Nm	$(4) \text{ Nm}^{-2}$
03.	Select the correct star	tements about ribos	ome and golgi complex,	
	golgi compl	ex	ribosome	
	(1) only in plant cell	Educa	only in animal cell	
	(2) protein synthesi		produce energy	
	(3) maintain water b		secretion	
	(4) secreation		protein in synthesis	
04.	Given below are som	e properties of com	pounds,	
	a. I	Law melting point.	b. Make lattice.	අධ්යාපන
	c. J	Donot conduct elect	tricity in aqueous solution.	
	What are the properti	ies of covalent com	pounds,	
	(1) a and b	(2) b and c	(3) a and c	(4) a, b and c
05.	A property of the cell	division of growth	of multicellular organisms is,	

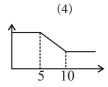
- (1) halved the number of chromosomes in nucleus.
- (2) the number of chromosomes of a species is constant generation to generation.
- (3) make variations from chromosames.
- (4) number of chromosomes in mother cell equal to daughter cells.
- 06. The substance in b plate is,
 - (1) 2mol of CaCO₃
 - (2) 2 mol of NaCl
 - (3) 2 mol of H_2O
 - (4) $2 \text{ mol of } C_6 H_{12} O_6$
- 07. Correct order of the organizational level of blood circulatory system.
 - (1) heart muscle cell heart tissue 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 heart muscle cell heart tissue

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









- 09. Special characteristic of organisms in domain bacteria,
 - (1) can't distroy using antibodies.
- (2) do not have a organized nucleus.

(3) all are autotrophic.

- (4) protozoa belongs to the domain.
- 10. Figue shows an object at equalibrium under F_1 , F_2 and F_3 correct statements are,



- a. F₁=F₂=F₃
 b. F₁+F₂>F₃
 c. F₁, F₂ and F₃ are in same plane.
- (1) a and b
- (2) b and c
- (3) a and b
- (4) a, b and c

- 11. ¹⁴ C is the isotope of Carbon. Number of nuetron is,
 - (1) 12

(2) 10

(3) 8

(4)6

- 12. Not a use of Nitrogen,
 - (1) produce ammonia
 - (3) use as a coolent.
- (2) fill electric lamps
- Education (4) to extract gold and silver
- 13. Not an advantage of tissue culture,
 - (1) get large number of plants at once.
- (2) obtain plants with variations.
- (3) get many plants in short period.
- (4) get characteristics similar to mother plant.
- 14. O, F, Na, Mg are 4 elements in periodic tuble. What is the element which has highest electronegetivity?
 - (1) O

- (2) Mg
- (3) Na

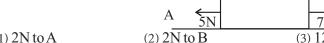
(4) F

- 15. Fertilization of human occurs in,
 - (1) vagina

(2) walls of uterus

(3) upper part of fallopian tube

- (4) lower part of fallopian tube
- 16. Oxide which has highest basic property,
 - (1) Na₂O
- (2) Al₂O₃
- $(3) P_{2}O_{5}$
- (4) SO₃
- 17. An object kept on rough table is pulled by a string. Order of frictional forces occured in both curfaces are.
 - (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,



(4) 12N to B

19.	To make the equilibrium (1) apply anti clockwise (2) apply anti clockwise (3) apply clockwise more (4) apply clockwise more	moment using 50N. moment using 5N. ment using 5N.		(5kg)
20.	The scientist who introdu (1) Avagardro	ice number of atoms in 1 m (2) Demetri Menderleaf		(4) Neil Bour
21.	Correct statement about '. (1) It is infected by bacte (3) Infected by sexual se	eria.	(2) It is not infected by vo (4) Cured by medicines.	ectors.
22.	Which molecule has high $(1) \ CH_4$	nest polarization in following (2) CO ₂	ing covalent bonds, (3) H_2O	(4) CCl ₄
23.	Sperms temperaly stord i (1) epididymis	n, (2) vas deferens	(3) prostrate gland	(4) cooper glands
24.	Select two element respectation, (1) Ca and S	ectfully which release election (2) O and Cl	etrons and gaining electro	ns to get staible electronic (4) Al and Ne
25.	b Wrappir c Fixing th d Remove Select the correct order or	twig without damaging. Ing the place from bottom to the twig to the stock to cont the wrap when the twig is f twig grafting,	act cambium. growing.	ඛ්යාපන,
26.	(1) a, b, c, d What is the common com (1) Water, Salt (3) Urea, Water	(2) a, c, b, d aponent of sweat and urine	(3) c, a, b, din human body,(2) Salt, Urea(4) Carbon dioxide, Water	(4) c, b, a, d
27.	statement about the motion (1) When the object is go (2) Highest velocity is n	on. oing upward velocity is de heights point. he moment of fell down.		position. Select the correct nighest point.
28.	The atomic number of electron (1) 12	ement in 3rd period and 4th (2) 14	n group in periodic table, (3) 16	(4) 18
29.	M is not a standard, symb (1) Al ω .	ol of $M_2(CO_3)_3$ element 'M (2) Mg ϖ .	I' should be, (3) N ය.	(4) Ca ය.
30.	Find the velocity of an ob	ject which has 20 g mass a	and 1.6 kg ms ⁻¹ in moment (3) 80 ms ⁻¹	tum, (4) 160 ms ⁻¹

molecule? (1) fructose, glucose (3) fructose, galactose The incident relevent t a oars b rele	e o the Newton's third law i	(2) galactose, glucose (4) glucose, glucose	
(1) fructose, glucose (3) fructose, galactose The incident relevent t a oars b rele	o the Newton's third law i	(4) glucose, glucose	
(3) fructose, galactose. The incident relevent t a oars b rele	o the Newton's third law i	(4) glucose, glucose	
a oars b rele			
	ase an air filled balloon		(4) a, b and c
, ,		(5) d direc	(1) a, o and o
(1) help to protein syr(2) importance for ev(3) stord genetic information	olution rmation in all virus	eration to generation.	
Answer question nun	nber 35 and 36 using foll	lowing velocity time gra	aph.
15 -	Education	506	
•		(2) 450	(m) 200
			(4) 300 m
(1) at rest	Oth second and 20the second (2) acceleration	(3) deceleration	(4) uniforme velocity
What is the deficiencies (1) C and K	es of vitamins relevent to (2) A and C	weaking of gum, and dela (3) K and A	aying blood clothing, (4) D and A
(1) Pull a vehicle usin	g an other vehicle.	(2) Pulling a fishing (4) Measure the mas	
A runner completed tw (1) 200 and 400 m	o rounds in 200, tract Fin (2) 0 m and 400 m	d the distance and displa (3) 400 m and 200 m	
(1) lack of exercises a (2) consumption of fr (3) increasing daily ne	nd using processed food. uits and having types of s eeds and lack of lesure tin	ugar. ne.	us diseases rapidly.
	c rele (1) a and b Not a function of DNA (1) help to protein syn (2) importance for eve (3) stord genetic infor (4) transition of genet Answer question num Velocity (15 - Displacement of the ob (1) 750 m The motion between 10 (1) at rest What is the deficiencie (1) C and K Example of equilibrium (1) Pull a vehicle usin (3) A stone rolling on A runner completed tw (1) 200 and 400 m The reason directly aff (1) lack of exercises a (2) consumption of fr (3) increasing daily no	a oars used to rawing a boat b release a sky craker c release an air filled balloon (1) a and b (2) b and c Not a function of DNA, (1) help to protein synthesis. (2) importance for evolution (3) stord genetic information in all virus (4) transition of genetic information from genetic information of genetic information from genetic information in all virus (4) transition of genetic information from genetic information from genetic information from genetic information in all virus (2) acceleration in the motion between 10th second and 20the second in the motion between 10th second and 20the second in the motion between 10th second and 20the second in the motion between 10th second and 20the second in the motion between 10th second and 20the second in the motion between 10th second and 20the second in the motion between 10th second and 20the second in the motion of force is, (1) Pull a vehicle using an other vehicle. (3) A stone rolling on ground. A runner completed two rounds in 200, tract Find (1) 200 and 400 m (2) 0 m and 400 m (3) increasing daily needs and lack of lesure times in the motion of fruits and having types of second increasing daily needs and lack of lesure times in the motion of the motion of fruits and having types of second increasing daily needs and lack of lesure times in the motion of the motion of fruits and having types of second increasing daily needs and lack of lesure times in the motion of the motion of fruits and having types of second increasing daily needs and lack of lesure times in the motion of fruits and having types of second increasing daily needs and lack of lesure times in the motion of fruits and having types of second increasing daily needs and lack of lesure times in the motion of fruits and having types of sec	b release a sky craker c release an air filled balloon (1) a and b (2) b and c (3) a and c Not a function of DNA, (1) help to protein synthesis. (2) importance for evolution (3) stord genetic information in all virus (4) transition of genetic information from generation to generation. Answer question number 35 and 36 using following velocity time gravelocity (ms ⁻¹) Education Velocity (ms ⁻¹) 15 Education (3) 450 m The motion between 10th second and 20the second is, (1) at rest (2) acceleration (3) deceleration What is the deficiencies of vitamins relevent to weaking of gum, and del. (1) C and K (2) A and C (3) K and A Example of equilibrium of force is, (1) Pull a vehicle using an other vehicle. (2) Pulling a fishing. (3) A stone rolling on ground. (4) Measure the mass



PROVINCIAL DEPARTMENT OF EDUCATION - NORTH WESTERN PROVINCE

Second Term Test 2018 SCIENCE - II

Grade 10	SCIENCE - II	Time: 3 hours

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rame.	/	HIUU	A INU.

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 specific features of water.	write two (01m.)
(iii)	Write two main features of Phylum arthropods.	(01m.)

	(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 covalen compounds.	
		1. Water	
		2. Sodium Chloride)
	(ii)	Briefly explain how to arrange Na ⁺ and Cl ⁻ ions in Sodium lattis. (02m.)
			•
	<i>(</i>)		•
	(111)	Write a special Chemical property that can be gained by Sodium Chloride due to it lattice Structure. (01m.	
		Education	
(C)		have to plain an activity to demonstrate that the Frictional force depends on the nature our face in contact. You have provided a spring balance, table and strings for the activity.	f
	(i)	Write another two requirements except given above. (01m.)
			•
			•
	(ii)	State two instances that are taken to record your observations. (02m.)
	(;;;)	Write an assumption that you made in above activity. (01m.	
	(111)	Write an assumption that you made in above activity. (01m.	
	(iv)	Write a factor that should be remain constant during the activity. (01m.)

(02)			ction of plants. Given below are Curry leaves, Akkapana, Shoo	ip to investigate vegetaive propagation in the propagation in the propagation in the propagation is some plants which they observed. It is flower, Orchid, Cashew, Coconut, and the propagation is some plants which they observed.	on and sexual
	(i		ect the plants which reproduce derground stem to which it belo	e by underground stem. From above sta	ate the type of (01)
			Name of the plant	Type of underground stem	
	(i	i) Wr 	ite two advantages of undegrou	and stems instead of vegetative propaga	tion. (01 m.)
	(i	 ii) Th	e sevual structure of a plant is	flower. What is the most suitable plant	from above to
	(1		amine the sexual structure of it.	lower. What is the most suitable plant	(01 m.)
			Rame A, B, C and D of above	filement අධ්යාපන)
				В	
				D	(02 m.)
		(b)		ising letters given in the diagram.	
		(c)		red in a flower from pollination to ferti	
			given letters)	1	(02 m.)
		(d)	Hercogamy is a adaptation which shows hercogamy.	which avoid self Pollination of flowers.	Name a plant (01 m.)

		(e) What is known as monoecium plant. State a plant which belongs to that above list.	types from (01m.)
	(v)	Given below are some vegetative parts of a plant. Write corresponding pabove list of the given parts.	plants from (01m.)
		Vegetative part Name of the plant	
		Root Stem cutting	
(В	disp	en below are some fruits and seeds which collected to inrestigate about persal of fruits and seeds. icastor, Gammalu, Milk weed (wara), Olinda, Lotus, Red bead (Madatiya)	method of
	(i)	State a seed which adapt to dispears by means of both explosive mechanimals?	(01m.)
	(ii)	Write a seed which dispersed by means of wind and state two adaptation of by wind. (a) Name of the seed	(01m.)
	(iii)	(b) Adaptation	
(03) (A) Give	en below is a formation of a compound by binding two atoms. $ \begin{array}{c} $	
	(i)	Mention X and Y.	(02m.)
	(ii)	x	(02m.)
	(iii)	State the type of bond which formed above.	(01 m.)
			•••••

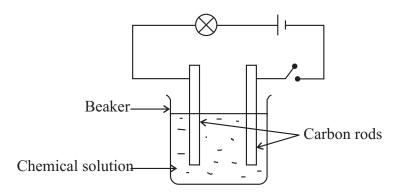
Gra	de 10) PR	OVINCIAL DEPARTMENT OF EDUCATION - NORTH WESTERN PROVINCE Science - II P	aper A
		(iv)	Draw a Lewis structure of above compound.	(02m.)
		(v)	Write a formula of a compound with covelant double bands.	(01 m.)
	(B)	It is	cumbersome to use common measuring unit of quanttifiation of atoms of elemen	nts.
		(i)	What is the name of that unit.	(01m.)
		(ii)	Name the element that should be used as above measuring unit.	(01m.)
		(iii)	Define the mass of magmisium relative to above unit.	(02m.)
		(iv)	Calculate the relative molecular mass of H_2SO_4 (H=1, S=32, O=16)	(02m.)
			අධ්යාපන	
		(v)	State an elemant with lawest mass in H ₂ SO ₄ molecule	(01m.)
(04)			below shows the Jak fruit with 10kg of mass which hanging on a branch. At the es from the stak takes 2 seconds to fall down on the earth. $(g = 10 \text{ ms}^{-2})$	momant
	(i)	Exp	lain 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	cording 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.	(01 m.)
(iv)	Fine	d the resultant force of Jak fruit before it fallon down on earth.	(01 m .)
()			
(v)	Wri	te two requirements should be fallfil to remains in equilibrium of Jak fruit.	(02m.)
	 2. 	Education	
(vi)		Oraw a velocity time graph to illustrate the motion of Jak fruit which fator the ground. velosity ms ⁻¹	
		> time s	
	(b)	What is the conclusion you can arised with in the shape of the graph?	(01 m.)
(vii))The	Jak fruit takes two seconds to fall to the ground.	
	(a)	Calculate the height to the Jak fruit few the ground.	(02 m.)
	(b)	Find the velocity of Jak fruit when it reaches the grand.	(02m.)

PROVINCIAL DEPARTMENT OF EDUCATION - NORTH WESTERN PROVINCE Paper B Grade 10 Science - II (05) (A) Given below is a Classification of vertebrates **Pisces** Mammalia Amphibian Reptilia Aves What feature of organisms can be used to introduce it as Vertebrates. (i) (01m.)(ii) Classify given organisms in to two groups as worm blooded (Homiothermic) and Cold blooded (Pokilothermic) (02m.)(iii) Write corrosponding animal group of vertebrates given bellow. (Frog / Bat / Tilapia / Lizard) (iv) Main Locomotive method of aves is flying. Write two adaptations which they shows to fly. (02m.) (v) According to the binomial nomenclature name of the man is Homosapeians. Write two convections used in binomial nomenclature. (02m.)(vi) Write a difference between natural classification and a artificial classification. (01m.)(B) The most prominent organisms with a celluler organization belong to domain Eukarya. They have the ability to live in different environments. Name the Kingdom which algae belongs. (01m.)(i) (b) Write another organism which belongs to kingdom given above instead of algae. (01m.)What is the compound that contributes to build up cell walls of fungi. (ii) (a) (01m.)(b) Explain briefly, The effect of fungi to the equilibrium of environment. (01m.)What is the name of fungi which used in bakery products. (01m.)(iii) (a) Name the kingdom which belongs to domain Eukarya consist of multicellur organisms have the ability to photosynthesise. (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 plants and non flowering seedless plants. (02m.)(c) Write two features of non flowering seedless plant. (01m.)

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

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



(i) What can be conclude by the setup.

(01m.)

(ii) A - Salt solution

B - Glucose solution

Solution A an B added separately in to a beakers. (02m.) In which instance lighted up the bulb. (02m.)

(iii) What is the reason for your answer?

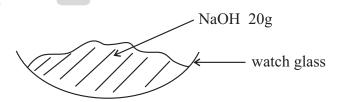
(02m.)

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- (iv) A student said, reason for the above observation is nature of Chemical bond of solution.

 Write type of chemical bond include in A on B separately. (02m.)
- (v) Write another two features of type of bonds include in salt solution. (02m.)
- (vi) Draw a dot cross diagram to show formation of NaCl. (02m.)

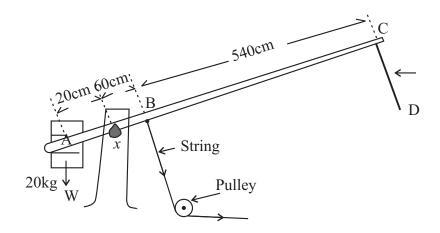
(B)



It is required to calculate the number of moles of NaOH in watch glass.

- (i) Write two value required to calculate the number of moles? (02m.)
- (ii) Calculate the number of moles in 20g of NaOH. (02m.)
- (iii) How many atoms are there in 1 mole of a elemant. (01m.)
- (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. (01m.)
- (ii) If the length of A to X is decreases. The load hang at B also

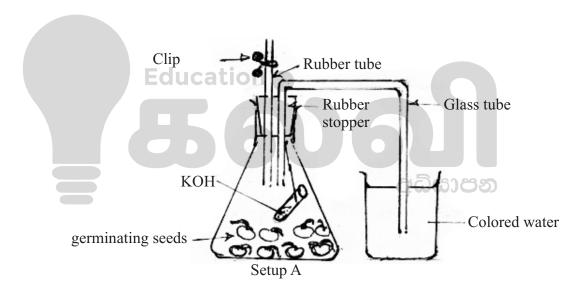
Education

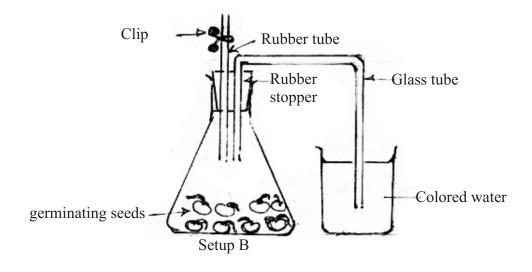
- (a) Do you agree with the statement given above. (01m.)
- (b) Write the reason for your answer. (01m.)
- (iii) Sugges another method to decrease the force applied on B. (02m.)
- (iv) Calculated the force required to close the gate by pulling the string at B. (02m.)
- (v) The rod become equilibrum in horizentaly by pulling the string. Calculate the reaction force exerted on X by the suporter. (02m.)
- (B) If the 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. (01m.)
 - (iii) Write an expression for that. (01m.)
 - (iv) What is the condition must be satisfied for a rod to remain in equilibrium. (02m.)
 - (v) (a) Write two places where energy wastage can be occured. (02m.)
 - (b) Write energy transformation can be found in the instance. (01m.)
 - (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.

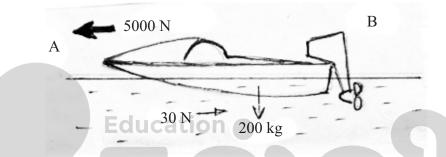
- (i) Mention the characteristic demonstrated by the activity. (01m.)
- (ii) Write stimuli and respond seperatly in above activity. (02m.)
- (iii) After a week it can be seen the plant grow out from the window. Define what is growth.
- (iv) Respiration is a charactaristic of organism. Given below is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





Grade 10 PROVIN	CIAL DEPARTMENT OF EDUCATION - NORTH WESTERN PROVINCE Sci	ence - II	Paper B
Question No. 08	W		(0.4
(a)	Write a name of a seed can be used here on.		(01 m.)
(b)	Write observations in A and B respectively.		(01m.)
(c)	Explain your observation due to the function of KOH in set up A.		(01m.)
(d)	In which organelle take place the cellular respiration.		(01m.)
(e)	During the respiration it absorb Oxygen and relized Carbon did laborotoy regent can be used to identify carbon dioxide.	oxide. W	hat is the (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.



- State the direction of force applied by the engine to move it toward the A using (i) letters A and B. (01m.)අධ්යාපන
- (ii) Write the action and reaction of the boat during the motion. (02m.)

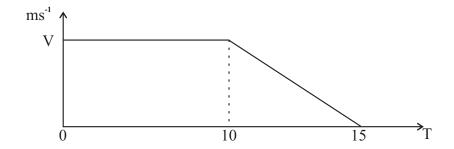
(02m.)

- (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.

(b) Write the reason for your answer.

- Write two chemical properties can be identified in metallic elements. (i) (02)
- (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. (01m.)
- (vii) Mention the colour of above element. (01m.)
- (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 1000 kg. 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			Secon	d Term	Test 2018	8		SCI	ENCE
				Ans	wer paper	- Part I				
01.(4)	02	2. (3)	03. (4) 04. (3) 05. (4)	06.(1)	07.(1)	08. (2)	09. (2)	10. (2)	
11.(3)		` ′	13. (2) 14. (17. (1)	18. (2)	` ′	20. (1)	
21. (3)			23. (1) 24. (27. (1)			` ′	
31. (3)	32	2. (2)	33. (4) 34. (3) 35. (4)		37. (1)	38. (4)	39. (4)	40. (1) (40 x 2 =	= - 20)
					Part I - A	\			(40 X Z =	- (e. 80)
(01) (A)	(i)	(a) Earth worm	/Leeach/Ner	reis					
			(b) Mollusca							
			(c) Scorpians/	Milipacle						
			(d) Echonodarr	nata			(two	marks for t	four answe	rs 02m.)
		(ii)	Correct two prop	peties of water	•					(01m.)
		(iii)	Bilateral syr	nmetry						
			• Triploblasti	c						(01m.)
		(iv)	1. Snail - Bilat	eral symmetry	7					
			2. Star fish - Pe	enta radial syn	nmetry					(01m.)
()	B)	(i)	1. Water - Cov	alent						
			2. Sodium chlo	oride - Ionic						(02m.)
		(ii)	Iron arrangeld ar	ound Na ⁺ and	6 Na ⁺ arran	ged around	Cl ⁻ ion.			(02m.)
		(iii)	Having high boi	ling points.						(01m.)
(C)	(i)	Different types of	of sand papers.	, wooden bl	ock				(01m.)
		(ii)	Rulling with rou	gh surface / Pu	ulling with s	smooth sur	face or suit	able answe	er.	(01m.)
		(iii)	Frictional force	increases due	to rough sur	face	q	ධ්යාප	3න	(01 m.)
		(iv)	Perpendicular re	eaction						(01m.)
(02) (A)	(i)	Ginger - Rhizor	ne						
			Colacosia - Com	ie						(01m.)
		(ii)	Perination / Stor	age of food						(01m.)
		(iii)	Shoe flower							(01m.)
		(iv)	(a) A - Stigma	ı	В	- Style				
			C - Overy		D	- Anther	$(4x^{1/2})$			(02m.)
			(b) Anther (D) o	liposited on A	stigma					(01m.)
			(c) diposited or	ı(A) stigma go	ing along tl	ne B and co	mbine witl	ıC.		(02m.)
			(d) Orchid or ar	y correct answ	ver.					(01m.)
			(e) The plant be	ar both stamir	nate and pis	illate flow	ers.			(01m.)
			Suitable exa	mple						(01m.)
		(v)	Root - Curry lear	ves						
			Stem cutting - Sl	noe flowers (½	(2x2)					(01m.)

Grade	10	Second Term Test 2018	SCIENCE
		Answer paper	
((B) (i)	Madatiya	(01m.)
	(ii)	suitable answer	(01m.)
	(iii)	suitable answer	(02m.)
(03)	(A) (i)	x - Oxygen/ y - O ₂	(02m.)
	(ii)	x-2 y-1	(02m.)
	(iii)	Covalent	(01m.)
	(iv)	9 8	(02m.)
	(v)	O_2	(01m.)
((B) (i)	Relative atomic mass unit	(01m.)
	(ii)	Carbon / 12 6C (01m.)	
	(iii)	Ratio between Mg and Relative atomic mass unit	(02m.)
	(iv)	98 (02m.)	
	(v)	Hydrogen/H	(01m.)
(04)	(i) The	force exerted upward from stak is equal to the weight of it.	(01m.)
	(ii)	Torce exerted upward from stark is equal to the weight of it.	(02m.)
•		Tension weight	(02111.)
	(iii) (a)	Weight	(01m.)
	(b)	$10 \times 10 = 100 \text{N}$	(01m.)
	(iv) Zero	0/0 (01m.)	
((v) Force	ees are aligned along the same line / opposite	(02m.)
((vi) (a)	V / ms ⁻¹ naming the axis (01m.)	
		shape (01m.) Time / s	(02m.)
	(b) U	Uniform accelaration or suitable answer.	(01m.)
((vii) (a)	Substitution (01m.) answer (01m.)	(02m.)

(02m.)

(b)

Substitution (01m.) answer (01m.)

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

Grade 10 Second Term Test 2018 SCIENCE

Answer paper

(07)	(A)	(i)	x	(01m.)
		(ii)	(a) Yes/agreed	(01m.)
			(b) less antiblack wise moment	(01m.)
		(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)	$200 \times \frac{120}{100} = \text{force } \times 600$	
			$240 = force \times 600$	
			$\frac{240}{600}$ = force	
			force = 0.4 N	
				(02m.)
		(ii)	moment	(01m.)
		(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	(02m.)
			(b) Kinetic energy Heat energy / sound E ධ්වති ශක්තිය	(01 m.)
		(vi)	Use bearing / Apply oil or greese	(02m.)
(08)	(A)	(i)	Movements	(01m.)
		(ii)	Stimuli - Contact Response - cold leaves	(02m.)
		(iii)	Increasing dry mass irrivisibley in living cells.	(02m.)
		(iv)	(a) Green gram seeds	(01 m.)
			(b) Colured water rises up in setup A. Non change is setup B.	(01 m.)
			(c) The volume of Oxygen obsorbed is equal to thr amount of Co_2 relised. (01m.)	
			(d) Mitocondria	(01m.)
			(e) Colourles lime water	(01m.)
	(B)	(i)	(a) To B direction	(01m.)
			(b) explanation using newtons 3rd law	(02m.)
		(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.)

)	Second Term Test 2018	SCIENCE
	Answer paper	
(i)	Two chemical featers	(02m.
(ii)	Na/Sodium	(01m.
(iii)	Decresing luster	(01m.
(iv)	Light relighted, lustrous nature	(02m
(v)	Bright flame / White powder	(02m
(vi)	Sulpher/S	(01m
(vii)	Yellow	(01m
(i)	Steering wheel	(01m
(ii)	600 = V x 10 V = 60	(02m
(iii)	$\frac{1000 \times 10}{4} = 2500N$	(01m
(iv)	Cutting groves / friction	(01m
(v)	පුස්තාරය ඇසුරින් නිවැරදි ගණනය කිරීමකට	(02m
(vi)	ස්කන්ධය x පුවේගය	
	$1000 \times 60 = 60000 \text{ kgms}^{-1}$	(02m
(vii)	ඉදිරියට විසිවී යාම වැනි නිවැරදි පිළිතුරකට	(01m
	අධ්යාපන	
	(ii) (iv) (v) (vi) (vii) (iii) (iii) (iv) (vi)	(iii) Na/Sodium (iii) Decresing luster (iv) Light relighted, lustrous nature (v) Bright flame/White powder (vi) Sulpher/S (vii) Yellow (i) Steering wheel (ii) $600 = V \times 10$ $V = 60$ (iii) $\frac{1000 \times 10}{4} = 2500 \text{N}$ (iv) Cutting groves/friction (v) පුස්තාරය ඇසුරින් නිවැරදි ගණනය කිරීමකට (vi) ස්කන්ධය x පුවේගය

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