Grade 10



PROVINCIAL DEPARTMENT OF EDUCATION - NORTH WESTERN PROVINCE

Second Term Test 2018 SCIENCE - I

Name / Index No.

Note: • Answer all questions.

(4) blood circulatory system

• 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.

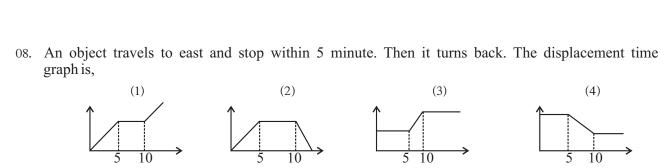
Time: 1 hour

01.		ctions are given o		n the answer sheet provi sheet. Follow them caref	
	(1) Sucrose	(2) Maltose	(3) Cellulose	(4) Fructose	
02.	Unit of the moment is (1) Nm ⁻¹	s, (2) N/m	(3) Nm	$(4) \text{ Nm}^{-2}$	
03.	Select the correct state golgi comple (1) only in plant cell (2) protein synthesis (3) maintain water b (4) secreation	ex S	ribosome only in animal cell produce energy secretion protein in synthesis		
04.		Law melting point. Donot conduct elec	b. Make latticetricity in aqueous solution		
05.	(1) halved the numb (2) the number of ch (3) make variations	er of chromosome romosomes of a sp from chromosame	pecies is constant generati	on to generation.	
06.	The substance in b pla (1) 2mol of CaCO ₃ (2) 2 mol of NaCl (3) 2 mol of H ₂ O (4) 2 mol of C ₆ H ₁₂ O ₆	ate is,		200 a pla	ı b
07.	(1) heart muscle cell	heart tissue eart muscle cell	l of blood circulatory system heart blood circulatory blood circulatory system tissue blood circulatory	ry system n heart	

heart muscle cell

heart

heart tissue



- 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
- (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

(2) fill electric lamps

(3) use as a coolent.

- (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,



19.	To make the equilibrium (1) apply anti clockwis (2) apply anti clockwis (3) apply clockwise mo (4) apply clockwise mo	e moment using 50N. ee moment using 5N. oment using 5N.		(5kg)
20.	The scientist who introd (1) Avagardro	uce number of atoms in 1 (2) Demetri Menderlea	•	(4) Neil Bour
21.	Correct statement about (1) It is infected by bac (3) Infected by sexual s	teria.	(2) It is not infected by v (4) Cured by medicines.	
22.	Which molecule has hig (1) CH ₄	hest polarization in follow (2) CO ₂	ving covalent bonds, (3) H ₂ O	(4) CCl ₄
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 election (2) O and Cl	ectrons and gaining electrons (3) Mg and Al	ons to get staible electronic (4) Al and Ne
25.	b Wrapp c Fixing d Remov	g twig without damaging. ing the place from bottom the twig to the stock to con re the wrap when the twig in of twig grafting,	s growing.	
26.	(1) a, b, c, d What is the common con (1) Water, Salt (3) Urea, Water	(2) a, c, b, d mponent of sweat and urin	(3) c, a, b, de in human body,(2) Salt, Urea(4) Carbon dioxide, Wat	(4) c, b, a, d
27.	statement about the mot (1) When the object is § (2) Highest velocity is	ion. going upward velocity is d n heights point. the moment of fell down.	of 40 ms ⁻¹ is come to initial ecreases an get the zero in	position. Select the correct highest point.
28.	The atomic number of e	lement in 3rd period and 4 (2) 14	th group in periodic table, (3) 16	(4) 18
29.	M is not a standard, sym (1) Al ω.	bol of $M_2(CO_3)_3$ element 'I (2) Mg ϖ .	M' should be, (3) N ω.	(4) Ca \approx.
30.	Find the velocity of an o	bject which has 20 g mass (2) 60 ms ⁻¹	s and 1.6 kg ms ⁻¹ in momen (3) 80 ms ⁻¹	tum, (4) 160 ms ⁻¹

31.	Elements contain allot (1) Al and Mg	cropes are, (2) C and O	(3) C and S	(4) S and O		
32.	Dysaccharide is made			rides used to make lactose		
	molecule? (1) fructose, glucose		(2) galactosa glucosa			
	(3) fructose, galactos	e	(2) galactose, glucose (4) glucose, glucose			
33.	a oars b rele	to the Newton's third law is s used to rawing a boat ease a sky craker ease an air filled balloon (2) b and c	(3) a and c	(4) a, b and c		
34.	Not a function of DNA	<u>,</u>				
	(1) help to protein syr(2) importance for ev(3) stord genetic info(4) transition of gene	olution	ration to generation.			
•	Answer question num	nber 35 and 36 using follo	owing velocity time graph	1.		
	Velocity (ms ⁻¹)					
35.	Displacement of the ol	0 10 20	30 time (s)			
55.	(1) 750 m	$(2) 600 \mathrm{m}$	(3) 450 m	(4) 300 m		
36.		0th second and 20the secon		. ,		
50.	(1) at rest	(2) acceleration	(3) deceleration	(4) uniforme velocity		
37.	What is the deficiencies (1) C and K	es of vitamins relevent to w (2) A and C	veaking of gum, and delayi	ng blood clothing, (4) D and A		
38.	Example of equilibrium (1) Pull a vehicle using (3) A stone rolling on	g an other vehicle.	(2) Pulling a fishing net (4) Measure the mass o			
39.	A runner completed tw (1) 200 and 400 m	vo rounds in 200, tract Find (2) 0 m and 400 m	the distance and displacer (3) 400 m and 200 m	ment of him respectively, (4) 400 m and 0 m		
40.	(1) lack of exercises a(2) consumption of fi(3) increasing daily n	Fected for increasing harms and using processed food. Tuits and having types of su eeds and lack of lesure time or of vehicles and pollution	igar. e.	diseases rapidly.		



PROVINCIAL DEPARTMENT OF EDUCATION - NORTH WESTERN PROVINCE

Second Term Test 2018 SCIENCE - II

Grade 10	SCIENCE - II	Time: 3 hours

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 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 (01m.)				
(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.)				
(C)		ou have to plain an activity to demonstrate that the Frictional force depends on the nature of a surface 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.)				
	(iv)	Write a factor that should be remain constant during the activity. (01m.)				

	_	flower, Orchid, Cashew, Coconut,), Ladies fingers, Ginger, Habarala	
* /	elect the plants which reproduce nderground stem to which it belon	by underground stem. From above state the	ne type of
	Name of the plant	Type of underground stem	
(ii) W	/rite two advantages of undegrour	nd stems instead of vegetative propagation.	(01 m.)
•••			
 T (iii)	he sexual structure of a plant is fl	ower. What is the most suitable plant from	above to
` ′	xamine the sexual structure of it.	F	(01 m.)
(iv) D	viagram given below shows a gync	oecium and Andriecium of a flower.	
	A	\bigcap D	
	/ B	filement	
		incinent	
	(C)	//	
	((¿ \ <u>}</u> }}—C	/	
	(25) C	/ (
(a	Name A, B, C and D of above of	/ / diagram.	
(a			
(a	A	/ / diagram. B D	
(a (b	A	B	
	A	B D	(02 m.)
	A	B D	(02 m.)
(b	A C Define the word pollination us	B	(02 m.) (01 m.)
	A C Define the word pollination us Write two steps can be occure	B D	(02 m.) (01 m.)
(b	A C Define the word pollination us	B	(02 m.) (01 m.)
(b	A C Define the word pollination us Write two steps can be occure given letters)	B	(02 m.) (01 m.)

		(e) What is known as monoecium plant. State a plant which belongs to the above list.	at types from (01m.)
	(v)	Given below are some vegetative parts of a plant. Write corresponding above list of the given parts.	plants from (01m.)
		Vegetative part Name of the plant	
		Root	
		Stem cutting	
(1	dis	ven below are some fruits and seeds which collected to inrestigate about spersal of fruits and seeds.	
		licastor, Gammalu, Milk weed (wara), Olinda, Lotus, Red bead (Madatiya)	
	(i)	State a seed which adapt to dispears by means of both explosive med animals?	chanism and (01m.)
	(ii)	Write a seed which dispersed by means of wind and state two adaptation of by wind.	
		(a) Name of the seed	
		(b) Adaptation	
	(iii)	Spreding away of the fruits and seeds from the mother plant during the distance two requirements which fullfil the plant from above process.	persal. Write (02m.)
(03) (2	A) Giv	ven below is a formation of a compound by binding two atoms.	
		$\begin{array}{cccccccccccccccccccccccccccccccccccc$)
	(i)	Mention X and Y.	(02m.)
		x y	
	(ii)	Write Valencies of the X and Y.	(02 m.)
		<i>xy</i>	
	(iii)	State the type of bond which formed above.	(01 m.)

Grad	de 10) PR	OVINCIAL DEPARTMENT OF EDUCATION - NORTH WESTERN PROVINCE Science - II	Paper A
		(iv)	Draw a Lewis structure of above compound.	(02m.)
		(v)	Write a formula of a compound with covelant double bands.	(01m.)
	(B)	It is	cumbersome to use common measuring unit of quanttifiation of atoms of eleme	ents.
		(i)	What is the name of that unit.	(01 m .)
		(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 moleculer mass of H_2SO_4 (H=1, S=32, O=16)	(02m.)
		(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. $(g = 10 \text{ ms}^{-2})$	e 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	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)	Find	l the resultant force of Jak fruit before it fallon down on earth.	(01m.)
(v)		te two requirements should be fallfil to remains in equilibrium of Jak fruit.	(02m.)
	 2. 		
(vi)		Draw a velocity time graph to illustrate the motion of Jak fruit which to the ground.	falling on (02m.)
		velosity ms ⁻¹ time s	
	(b)	What is the conclusion you can arised with in the shape of the graph?	(01 m.)
(vii)	` /	Jak fruit takes two seconds to fall to the ground.	(611111)
	(a)	Calculate the height to the Jak fruit few the ground.	(02m.)
	(b)	Find the velocity of Jak fruit when it reaches the grand.	(02m.)

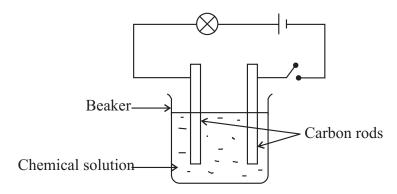
PROVINCIAL DEPARTMENT OF EDUCATION - NORTH WESTERN PROVINCE Paper B Science - II Grade 10 (05) (A) Given below is a Classification of vertebrates **Pisces** Amphibian Reptilia Mammalia Aves What feature of organisms can be used to introduce it as Vertebrates. (i) (01m.)(ii) Classify given organisms in 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. (i) (01m.)(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. Pinus Sellagenlla Poganetum 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.

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

(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.)

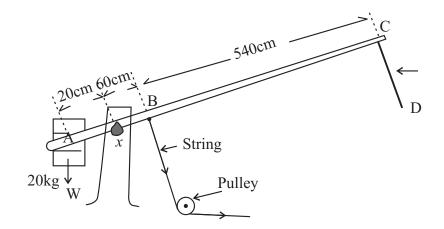
- (iii) What is the reason for your answer? (02m.)
- (iv) A student said, reason for the above observation is nature of Chemical bond of solution. Write type of chemical bond include in A on B separately. (02m.)
- (v) Write another two features of type of bonds include in salt solution. (02m.)
- (vi) Draw a dot cross diagram to show formation of NaCl. (02m.)

(B) NaOH 20g watch glass

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.

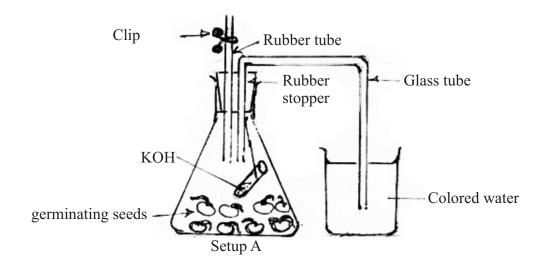


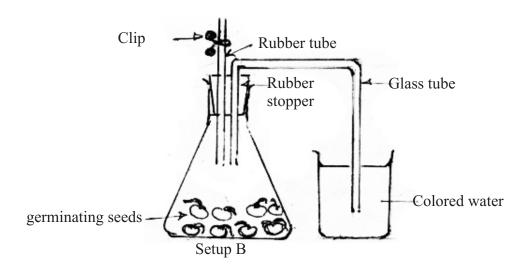
- (i) What is the letter denoted by axis of rotation of above ABC rod. (01m.)
- (ii) If the length of A to X is decreases. The load hang at B also
 - (a) Do you agree with the statement given above. (01m.)
 - (b) Write the reason for your answer. (01m.)
- (iii) Sugges another method to decrease the force 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 direction of the sunlight.
at a window	direction of the sunlight.

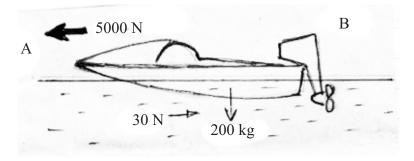
- (i) Mention the characteristic demonstrated by the activity. (01m.)
- (ii) Write stimuli and respond seperatly in above activity. (02m.)
- (iii) After a week it can be seen the plant grow out from the window. Define what is growth.
- (iv) Respiration is a characteristic of organism. Given below is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





Grade 10 PROVIN	ICIAL DEPARTMENT OF EDUCATION - NORTH WESTERN PROVINCE	Science - II	Paper B
Question No. 08			
(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	ρA.	(01m.)
(d)	In which organelle take place the cellular respiration.		(01m.)
(e)	During the respiration it absorb Oxygen and relized Carbon	dioxide. W	hat 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)
 - (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.)

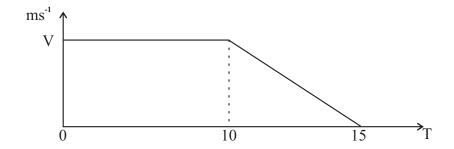
(iv) Write two physical properties of magnesium. (02m.)

(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)			Second	d Term	Test 201	8		SC	ENCE
					Ansv	wer paper	- Part I				
01. (4)	02	2. (3)	03. (4) 04	4. (3)	05. (4)	06. (1)	07. (1)	08. (2)	09. (2)	10. (2)	
11.(3)	12	2. (4)	13. (2) 14	4. (4)	15. (3)	16. (1)	17. (1)	18. (2)	19. (4)	20.(1)	
21.(3)	22	2. (3)	23. (1) 24	4. (1)	25. (2)	26. (1)	27. (1)	28. (2)	29. (1)	30. (3)	
31. (3)	32	2. (2)	33. (4) 34	1. (3)	35. (4)	36. (4)	37. (1)	38. (4)	39. (4)	40. (1)	
						Part I -	A			(40 x 2	= C. 80)
(01) ((A)	(i)	(a) Earth wo	rm/Le	each/Ner	eis					
			(b) Mollusca	ı							
			(c) Scorpian	s/Milip	pacle						
			(d) Echonod	armata				(two	marks for t	four answe	ers 02m.)
		(ii)	Correct two p	ropetie	s of water.	,					(01m.)
		(iii)	• Bilateral	symme	try						
			 Triplobla 	ıstic							(01m.)
		(iv)	1. Snail - Bi	laterals	symmetry	,					
			2. Star fish -	- Penta 1	adial sym	metry					(01m.)
((B)	(i)	1. Water - C	Covalent	į.						
			2. Sodium c	chloride	- Ionic						(02m.)
		(ii)	Iron arrangelo	d aroun	d Na ⁺ and	6 Na⁺arrar	nged around	Cl ⁻ ion.			(02m.)
		(iii)	Having high b	oiling	points.						(01m.)
((C)	(i)	Different type	es of sar	nd papers,	wooden b	lock				(01m.)
		(ii)	Rulling with 1	rough sı	ırface / Pu	ılling with	smooth sur	face or suit	able answe	er.	(01m.)
		(iii)	Frictional for	ce incre	ases due t	o rough su	rface				(01m.)
		(iv)	Perpendicula	r reactio	on						(01m.)
(02) ((A)	(i)	Ginger - Rhiz	zome							
		. ,	Colacosia - C								(01m.)
		(ii)	Perination/S	torage o	of food						(01m.)
		(iii)	Shoe flower								(01m.)
		(iv)	(a) A - Stig	gma		Е	3 - Style				
			C - Over	ry		Γ	O - Anther	$(4x^{1/2})$			(02m.)
			(b) Anther (Γ	O) dipos	ited on A	stigma					(01m.)
			(c) diposited	lon(A)	stigma go	ing along t	he B and co	mbine witl	ıC.		(02m.)
			(d) Orchid or	r any co	rrect answ	ver.					(01m.)
			(e) The plant	t bear bo	oth stamin	ate and pis	stillate flow	ers.			(01m.)
			Suitable	exampl	e						(01m.)
		(v)	Root - Curry 1	leaves							
			Stem cutting -	- Shoe f	lowers (½	ex2)					(01m.)
						01					

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(02m.)

(02m.)

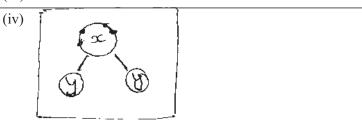
(02m.)

Answer paper

(B) (i)	Madatiya	(01m.)

(03) (A) (i)
$$x - Oxygen / y - O_2$$
 (02m.)

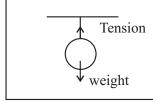
(ii)
$$x-2$$
 $y-1$ (02m.)



(v) O_2 (01)

(ii) Carbon
$$/ {}^{12}_{6}$$
C (01m.)

(ii) Tension

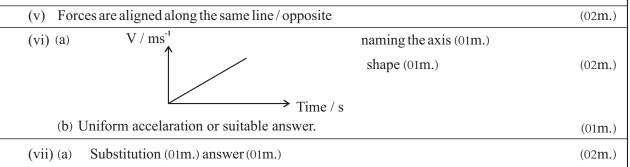


Substitution (01m.) answer (01m.)

(b)
$$10 \times 10 = 100 \text{N}$$
 (01m.)

(iv) Zero / 0 (01m.)

(b)



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			Answer paper Section - B	
(05)	(A)	(i)	Presence of vartrible column	(01m.)
		(ii)	Worm bloded cold bloded	
			Piscase Aves	
			Amphibla Mamalia	
			Reptilia	(02m.)
		(iii)	Amphibia, Mamalia, Piscase, Reptilia	(02m.)
		(iv)	Fore legs become winds / light weighted endoskeleton / streamlined body shape	(02m.)
		(v)	• The first epithet is generic name and the second epithet is the specifics. • The generic name is capital.	first letter of (02m.)
		(vi)	any correct answer	(01m.)
	(B)		(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	
			Cycas Poganatum/Pinus sellogeulla	(02m.)
			(c) any correct answer	(01m.)
			(d) any correct answer	(01m.)
(06)	(A)	(i)	To investigate current flow through the solution	(01m.)
		(ii)	A - Salt solution	(02m.)
		(iii)	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.)
	(B)	(i)	• Given mass of NaOH (01m.)	
			• Moler mass of NaOH (01m.)	(02m.)
		(ii)	0.5mol (01m.) substitution (01)	(02m.)
		(iii)	6.022×10^{23}	(01m.)
		(iv)	$6.022 \times 10^{23} \times 3$	(01m.)
		(v)	gmol ⁻¹	(01m.)
		(vi)	Triple beam balance / Chemical balance	(02m.)

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Answer paper

(07)	(A)	(i)	X	(01m.)
		(ii)	(a) Yes/agreed	(01m.)
			(b) less antiblack wise moment	(01 m.)
		(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)	$200 \times \frac{120}{100} = \text{force } \times 600$	
			$240 = force \times 600$	
			$\frac{240}{600} = \text{force}$	
			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	(01m.)
			(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	(01 m.)
			(e) Colourles lime water	(01m.)
	(B)	(i)	(a) To B direction	(01m.)
			(1)	(02m.)
			(b) explanation using newtons 3rd law	(02111.)
		(ii)	Action - force exarted by engine	(02111.)
		(ii)		(02m.)
		(ii)	Action - force exarted by engine	
			Action - force exarted by engine Reaction - force exarted by water to the bolt.	(02m.)
		(iii)	Action - force exarted by engine Reaction - force exarted by water to the bolt. $5000 + 30 = 5030 \mathrm{N}$	(02m.)
		(iii)	Action - force exarted by engine Reaction - force exarted by water to the bolt. $5000 + 30 = 5030 \mathrm{N}$ $5000 = a \times 200$	(02m.)

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		Answer paper	
(09) (A	.) (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
(B	(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	
		$1000 \times 60 = 60000 \text{ kgms}^{-1}$	(02n
	(vii)	ඉදිරියට විසිවී යාම වැනි නිවැරදි පිළිතුරකට	(01m