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l Ctra	டி டி கிறிவர் மூழ்ப் பதிப்புரிமையுடையது /All Rights Reserved]
	ை கில்கவேடிதிய பாடத்திட்டம்/New Syllabus
	பில்கையில் கல்கு கல்கையில் கல்கு பிரைக்கள் கல்கைக்கள் கல்கு கல்கள் கல்கள் கல்கள் கல்கள் கல்கள் கல்கள் கல்கள் கல் கல்கள் கல்கள் கல்கள் பிரிக்கள் கல்கள் கல் கல்கள் கல்கள் கல்கள் கல்கள் கல்கள் கல்கள் கல்கள் கல்கள் கல்கள் கல்கள் கல்கள்
	අධායයන පොදු සහතික පතු (සාමානා පෙළ) විභාගය, 2017 දෙසැම්බර් සහ්ඛ්්
	பில் பி விஞ்ஞானம் Science I பிக்கி குரு மணித்தியாலம் One hour
N	ote :
	* Answer all questions.
	* In each of the questions 1 to 40, pick one of the alternatives (1), (2), (3), (4) which you consider as correct or most appropriate.
	* Mark a cross (X) 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.
	Which of the following plants is a gymnosperm?(1) Coconut(2) Paddy(3) Grass(4) Pinus
2.	What is the unit of the moment of force? (1) $J s^{-1}$ (2) kg m s ⁻² (3) N m (4) N m ⁻²
3.	
	The organ which mainly contributes to nitrogenous excretion in the human is (1) skin. (2) kidney. (3) nose. (4) lungs.
4.	Which of the following substances can be mixed with water to make a heterogeneous mixture? (1) Copper sulphate (2) Ethyl alcohol (3) Sugar (4) Wheat flour
5.	Which of the following organelles releases energy by aerobic respiration?(1) Nucleus(2) Mitochondrion(3) Ribosome(4) Golgi complex
б.	Which of the following oxides is basic?
	(1) MgO (2) Al_2O_3 (3) SO_2 (4) SiO_2
7.	The animal tissue given in the diagram is (1) a muscle tissue. (3) an epithelial tissue. (4) a connective tissue.
8.	 Which of the following energy transformations takes place in a bicycle dynamo? (1) Electric energy → Mechanical energy (2) Thermal energy → Electric energy (3) Mechanical energy → Electric energy (4) Electric energy → Light energy
9.	The biochemical reactions that take place in organisms are catalysed by(1) hormones.(2) enzymes.(3) fatty acids.(4) water.
10.	 In which of the following instances, does a couple of forces act? (1) When a door is opened by pushing (2) When a nail is unscrewed by a screw driver (3) When the rope is pulled in opposite directions by two groups in a competition of pulling ropes (4) When two persons are pushing a box in the same direction, which is kept on the floor
11.	The number of electrons and the number of protons in an Al^{3+} ion are respectively, (The atomic number of Al is 13.)
10	(1) 10, 13 (2) 10, 27 (3) 13, 13 (4) 13, 27
12.	What is the standard notation of Tritium? (1) ${}^{1}_{1}H$ (2) ${}^{2}_{1}H$ (3) ${}^{3}_{1}H$ (4) ${}^{3}_{3}H$
13.	Which of the following adaptations is shown by the seeds of Hora/Ennei plant for dispersal by wind?(1) Possessing wing-like structures(2) Presence of hairs(3) Having air-filled shells(4) Consisting of different patterns

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A certain covalent	compound is	completely ionized	in water.	Which of	the	following	could	be	this
compound?									
(1) NH ₄ OH	(2) HCl	(3)	CuSO4	1	(4) H	I ₂ CO ₃			

15. The endocrine glands that secrete glucagon and calcitonin in human body are respectively,

(1) pancreas and thyroid.

adrenal and thyroid. (2)

- (3) pituitary and adrenal.
- thyroid and pancreas. (4)
- 16. Select the option in the table which gives the most suitable extraction method for each of the elements potassium, calcium and lead.

	Potassium	Calcium	Lead
(İ)	Electrolysis	Reduction	Physical method
(2)	Electrolysis	Reduction	Reduction
(3)	Reduction	Electrolysis	Physical method
(4)	Electrolysis	Electrolysis	Reduction

- 17. On a horizontal ground, the point B is located to the east of A and point C is located to the north of B. An ant has moved from A to C through the straight line paths AB and BC. If AB = 3 m and BC = 4 m, what is the displacement of ant in this motion? (2) 5 m. (4) 25 m. (1) 4m. (3) 7 m.
- 18. A situation where an image of a flower pot taken on to a white vertical plane using an item called X is shown in the figure. Which of the following could be X?
 - (1) A plane mirror
 - (2) A convex mirror
 - (3) A concave lens
 - (4) A convex lens

19. Which of the following statements is true regarding waves?

(1) Transverse waves propagate with compressions and rarefactions.

- (2) The distance between a crest and a trough of a transverse wave is equal to the wave length of that wave.
- (3) It is not necessary to have a medium for the propagation of mechanical waves.
- (4) Energy is transmitted by the mechanical waves without the transmission of substance.
- 20. The salts which precipitate in the first tank and third tank, in the production process of salt from sea water are respectively,
 - (1) CaCO3 and NaCl (2) CaSO₄ and MgSO₄
 - (3) MgSO₄ and NaCl
- (4) CaCO₃ and CaSO₄
- 21. Select the most efficient food chain among the food chains given below.
 - (1) Grass \rightarrow Deer \rightarrow Tiger
 - (2) Carrot \rightarrow Rabbit \rightarrow Python \rightarrow Hawk
 - (3) Grass \rightarrow Grass hopper \rightarrow Rat \rightarrow Cobra \rightarrow Hawk
 - (4) Paddy \rightarrow Rat \rightarrow Hornbill \rightarrow Hawk
- The composition of a glucose solution in terms of mass and volume is 90 g dm⁻³. What is the concentration 22. of that glucose solution? (Relative molecular mass of glucose is 180)
 - (1) 0.25 mol dm⁻³ (2) 0.50 mol dm⁻³ (3) $0.75 \text{ mol } \text{dm}^{-3}$ (4) 2.00 mol dm^{-3}
 - Which of the following is not a function of nucleic acids?
 - (1) Storing genetic information of organisms (2) Contributing to protein synthesis
 - (3) Controlling activities of the cell (4) Maintaining body temperature
- The final products of the reaction of haematite (Fe₂O₃) with carbon monoxide gas in the temperature range 24. of 1000 °C-1900 °C are (3) Fe and O_2 (4) FeO and FeCO₃ (1) Fe and CO_2 (2) FeO and CO_2
- 25. Which of the following end products of digestion is not absorbed by the blood capillaries of the villi in the small intestine in human? (2) Glycerol (4) Fructose (1) Amino acids (3) Galactose

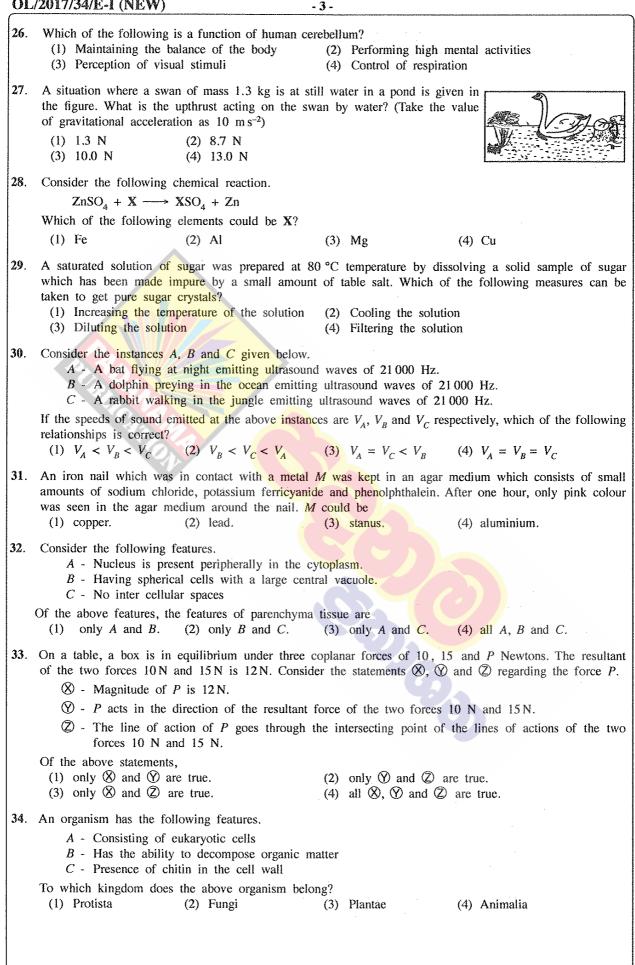
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X

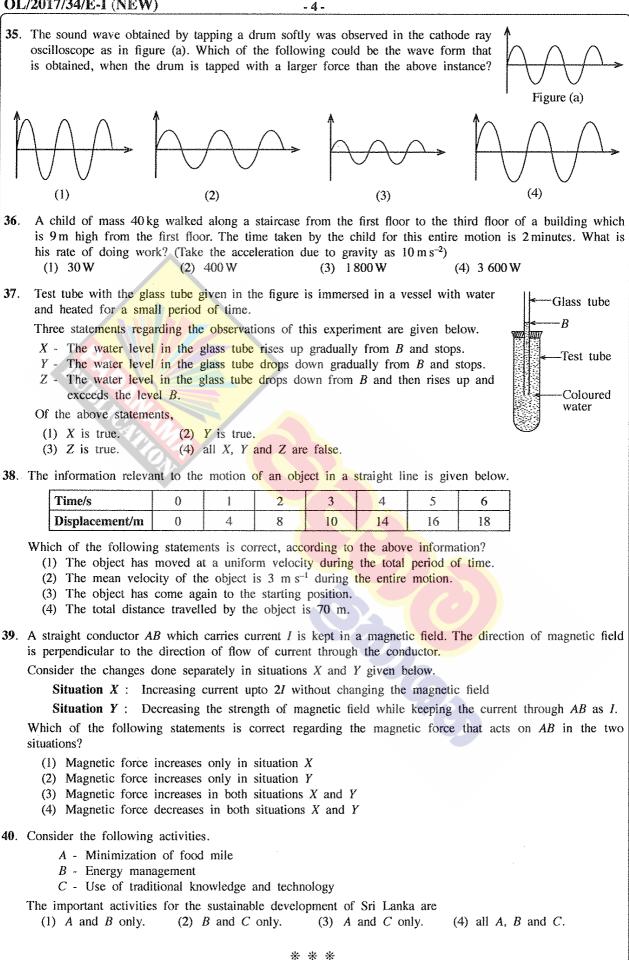
vertical plane

23.

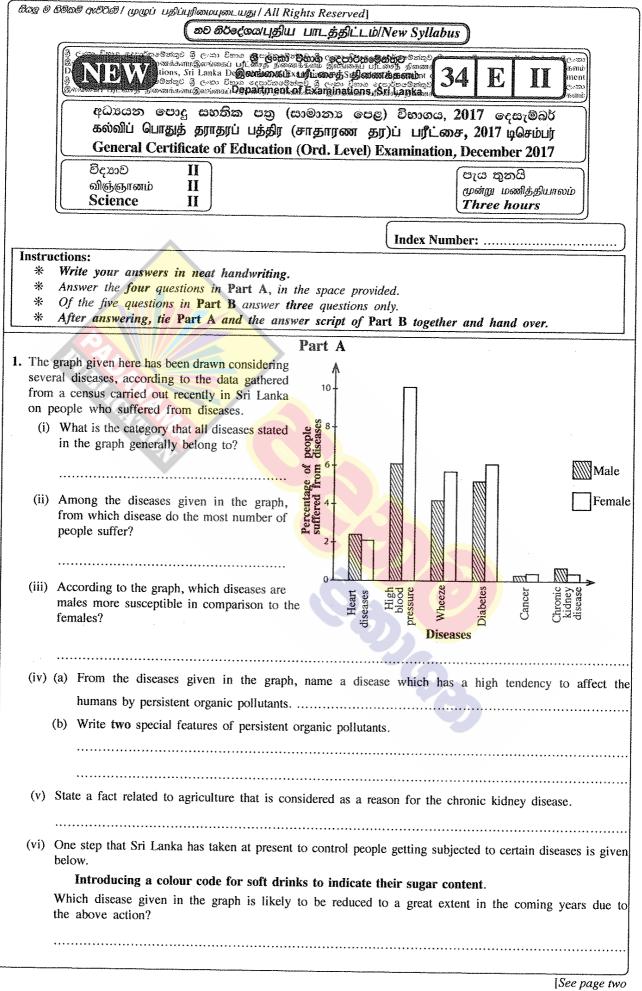
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		diseases can be conment which may					iouna ni sch
		Broken tes Fluorescen		tic bottles, B elopes,	atteries, Pen Filter papers	tubes,	
		ify the above items enient for their disp		ories based on a	ppropriate crite	ria, to make the w	aste managem
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		I on the structural I		rates are classifi	ed into five gr	oups. Consider th	e following ta
	prepa	red in relation to i Vertebrate group	t. Pisces	A	B	Aves	C
		vertebrate group	Sea horse	Toad	Tortoise	Jungle fowl	Bat
		¥5	Sea horde				
(A (ii) N 		bded animals m	t :	table.		
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(i (i (B)	A (ii) N iii) Ta iv) W You a (i) Ya to	ame the vertebrate ame two cold bloc o which vertebrate /rite two specific fa are assigned to sho ou are provided w o the experiment. E A beaker,	groups A, B a boded animals m group stated in eatures related ow experimenta ith the equipmo Draw a rough s A boiling tu	and C. entioned in the the table do the to flying, that lly, that oxygen ent and materia ketch of the se be, A glass f	table. humans belon belongs to ver gas is produc us given below t-up that you funnel, A hy set-up is expo	c C : g? tebrates in Aves g ed during photosy w for the apparatu make using the g drilla plant, Wa	ynthesis. Is set-up relev iven equipmen

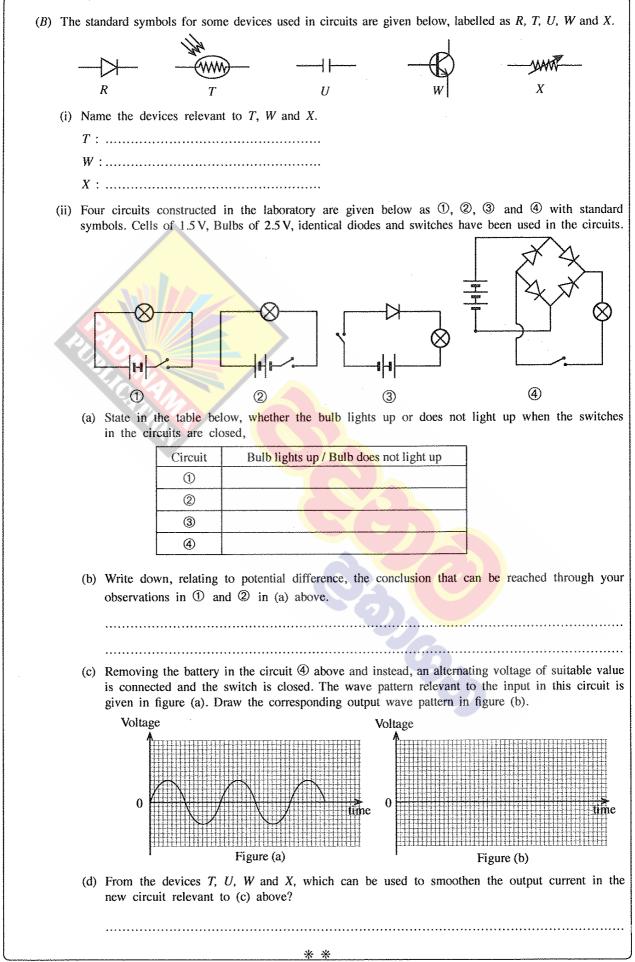
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	(B Li C Be Ne F O N)
((i) Arrange all the above elements as in the periodic table.
(i	i) Write the electronic configuration of F.
<i></i>	
(11	i) (a) Write the chemical formula of the compound which is formed in the reaction between Li and O
	(b) What is the time of chemical hand much of the state o
	(b) What is the type of chemical bond present in the compound stated in (a) above?
4	
(11	i) In the given box, draw the Lewis structure of CO ₂ molecule which is formed with the combination of one C atom and two O atoms.
	and contraction of one of atom and two of atoms.
(*	
(V	7) Diamond and graphite are main allotropic forms of C. Which of these allotropic forms conduct electricity?
(vi) From the elements in this period, write respectively, the element which has the lowest first ionization
	energy and the element which has the highest electronegativity.
(<i>B</i>) T	he following questions are based on an experiment on producing a sample of oxygen gas in the
	boratory.) Among the compounds given below, which compound can be used to produce oxygen gas?
(4.	CaCO ₃ , KMnO ₄ , MgSO ₄ :
(ii) What is the type of reaction that takes place during the production of oxygen gas when only the
	compound you stated above is used?
(iii)) Which equipment must be used to place the compound to carry out the experiment?
(iv)) What is the name given to the method that is used in the laboratory, to collect oxygen gas produced in this experiment?
(A) Tl a	he figure shows a ray diagram relevant to a situation in which fish in a pond is viewed by a kingfisher.
(i)) Name the angles <i>i</i> and <i>r</i> shown in the ray diagram.
	<i>i</i> air
	r
	• Considering the two media in the figure, state what is $B \cdot A$
(ii)	given by the constant $\frac{\sin i}{\sin r}$.
(11)	sinr -CQC -
(11)	

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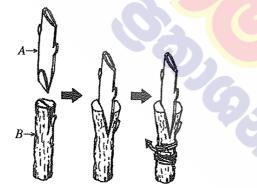
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Part B

- Answer three questions only, from questions No. 5, 6, 7, 8 and 9.
- 5. (A) Some components in the human blood are given below.
 - * Red blood cells
 - * White blood cells
 - * Platelets
 - * Proteins
 - * Glucose
 - **∗** Ca²⁺
 - * Urea
 - (i) Which blood cells are most abundant in blood?
 - (ii) Of the components given above,
 - (a) write two components that belong to blood plasma.
 - (b) state a nitrogenous waste material present in blood.
 - (iii) (a) Given below is a diagram of a blood cell that belongs to a certain type. To which component given above, does this cell belong?



- (b) State a function of the blood component to which the cell given in (a) above belongs.
- (iv) (a) Write a disease associated with blood circulatory system of the human.(b) In a person suffering from Dengue, which component decreases drastically?
- (v) Briefly explain, the process of regulation of blood glucose level in human.
- (B) (i) Steps of a plant grafting method are shown in the figure given below.



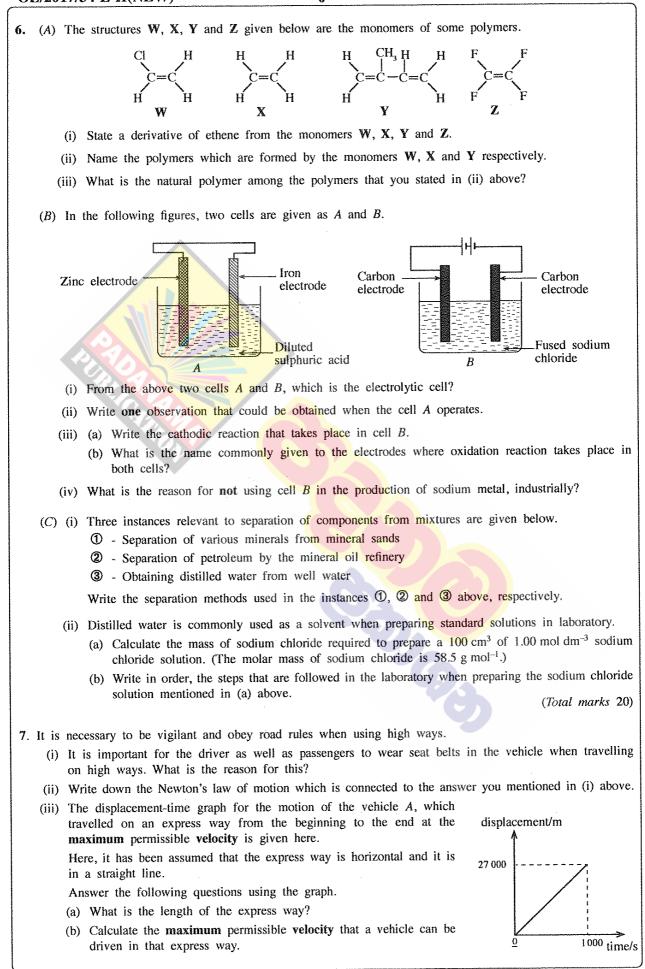
- (a) What is the name given to the above grafting method?
- (b) Write, respectively, the names given to parts A and B, according to this grafting method.
- (c) Of the parts A and B, characteristics of which part does the daughter plant get?
- (ii) Flower is the structure that contributes to sexual reproduction of plants.
 - (a) Name the three parts that the gynoecium of a flower consists of.
 - (b) Write two changes that take place in a flower after fertilization.

(Total marks 20)

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- (iv) In heavy rainy days, the drivers are advised to maintain 15 m s⁻¹ as the maximum velocity for a vehicle that is driven on the express way mentioned in (iii) above.
 - (a) What is the main reason for advising the drivers **not** to drive the vehicles at a higher velocity when heavy rain exists?
 - (b) Explain scientifically, your answer in (a) above.

(c) On a heavy rainy day, the motion of the vehicle B which travelled from the beginning to the end of the express way mentioned in (iii) above was as follows.
It started from the rest and uniformly accelerated in the first 10 seconds and acquired maximum velocity (15 m s⁻¹). Thereafter it travelled at the same velocity for a certain time and in the last 10 seconds it uniformly decelerated and came to rest at the end of the express way. Including the given information, draw a rough sketch of the velocity-time graph for the motion of vehicle B.

- (d) Find the total time taken by vehicle B to travel on the express way.
- (e) If the mass of the vehicle B is 3 000 kg, Find its momentum at the instance when it travelled in the maximum velocity.
- (v) When drivers are driving vehicles, it is important to pay attention to the side mirrors in front of the vehicles for the prevention of accidents.
 - (a) What type of curved mirrors are used as side mirrors of the vehicles?
 - (b) How does paying attention to those mirrors, contribute to prevent road accidents when the vehicles are driven? (Total marks 20)
- 8. (A) A diagram relevant to the experiment carried out by Mendel on inheritance, using garden pea plant is given below.

	Phenotype	Round seed	Wrinkled seed
Parents			
	Genotype	RR	rŗ
	Gametes	R	r
F ₁ generation	1		/25
	Phenotype	Round	seed
	Genotype	R	r

- (i) What are the contrasting characters used in this experiment?
- (ii) In which step does meiosis occur during this process?
- (iii) (a) According to the above experiment, show, using a diagram, how characters are inherited in a mono-hybrid cross of F₁ generation.
 - (b) Write the genotypes and corresponding phenotypes of the offsprings obtained in F_2 generation in the above cross.
- (iv) Transmission of inherited characters to the next generation as stated above is common to all living organisms. Accordingly, explain briefly, the importance of not having marriages between blood relations.

(B) Several electric appliances used in a house are given below.

Television, Fluorescent lamp, Microwave oven, Immersion heater, Hot plate, Electric iron

- (i) When some appliances mentioned above are used, it is necessary to use three pin plugs.
 - (a) From these appliances, name one appliance with which a three pin plug must be used.

(b) What is the importance of using a three pin plug for the appliance you mentioned in (a) above?

- (ii) Write down a main energy form that the electric energy converts into, when the television operates.
- (iii) Television is operated by a remote control.
 - (a) As what type of waves are the signals sent to the television by the remote control?
 - (b) Write two characteristics of the wave type that you have mentioned in (a) above.

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(iv)	The	power	of	some	appliances	mentioned	above	are	given	in	the	following t	able.

Appliance	Power/W
A - Television	125
B - Fluorescent lamp	18
C - Microwave oven	1500
D - Electric iron	1200

In a certain day all these four appliances were operated during 1 hour and 30 minutes period.

- (a) Arrange A, B C and D in the ascending order of the electric energy consumption during the time of operation. (Calculations are not expected)
- (b) Calculate the electric energy consumed by A during that time.

(Total marks 20)

- 9. (A) The three solutions NaOH, HCl and NaCl of concentration 1.00 mol dm⁻³ are put separately into test tubes A, B and C.
 - (i) The tests carried out by a student to identify the solutions separately, and the observations made are given in the table below.

\sim	Test	Observations
1.	Dipped red and blue litmus papers in the solution in tube A	 Blue litmus did not show any colour change Red litmus turned to blue
2.	Dipped red and blue litmus papers in th solution in tube B	 Red and blue litmus did not show any colour change

Mention the solutions in test tubes A, B and C respectively.

- (ii) When 100 ml of each of the solutions NaOH and HCl stated above were mixed in a thermally insulated vessel, the temperature of the mixture rose up to 5 °C.
 - (a) Write the balanced chemical equation for the reaction between NaOH and HCl.
 - (b) Calculate the heat change associated with the reaction mentioned above. (Take the specific heat capacity of water as 4 200 J kg⁻¹ °C⁻¹ and the density of water as 1 g cm⁻³).
- (iii) Write two assumptions that you made when determining the heat change associated with the reaction between NaOH and HCl stated above.

(B) The sun, atmosphere, land and the sea are natural resources.

- (i) The sun's surface temperature is approximately 5800 K.
 - (a) What is the surface temperature of sun in Celsius?
 - (b) In which heat transferring method does the heat transfer from sun to earth?
 - (c) Explain scientifically, how the sea breeze is formed in day time due to sun's heat.
- (ii) In a certain day, the atmospheric pressure at sea level was 76 cm Hg and the atmospheric pressure at 10 km above sea level was 20 cm Hg.
 - (a) Name a laboratory instrument which is used to take the measurements of atmospheric pressure stated above.
 - (b) What is the reason for the pressure difference observed above?
- (iii) Calculate the hydrostatic pressure at a place 2 km deep from the sea level. Take the density of sea water as 1050 kg m⁻³ and acceleration due to gravity as 10 m s⁻².

(Total marks 20)

* * *

ஜீ ுுை பிலால் கைப்பில் கைப்பில் கைப்பில் கைப்பில் கிறையை கிறையில் கைப்பிற்றைக் கிறைக்களும்

අ.පො.ස. (සා.පෙළ) විභාගය - 2017 க.பொ.த (சா.தர)ப் பரீட்சை - 2017

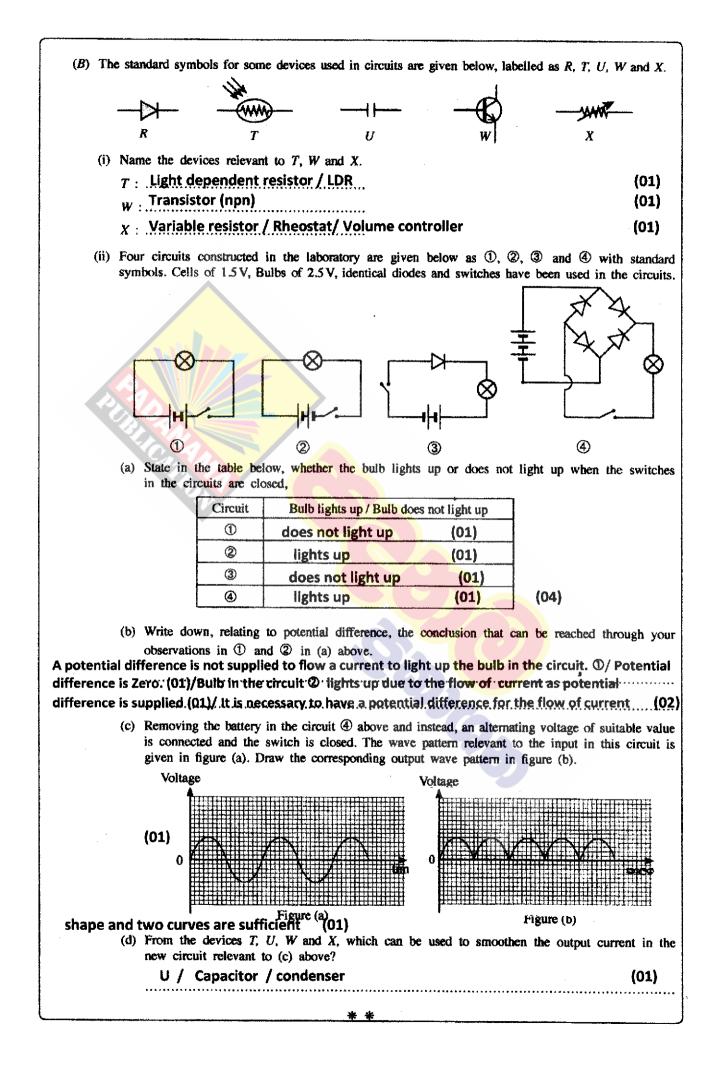
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ള്ള <u>ു</u> . 01.	4	<u>ල</u> ුළු. 11.	1	<u>ම</u> ුහ. 21.	1	<u>ම</u> ුல. 31.	4
02.	3	12.	3	22.	2	32.	1
03.	2	13.	1	23.	4	33.	3
04.		14.	2	24.		34.	2
05.	2	15.	1	25.	2	35.	ALL
06 .	<u></u>	16 .	4	26.	1	36.	1
07.	3	17.	2	27.	4	37.	3
08 .	3	18.	4	28.		38.	2
09.	2	19.	4	29.	2	39.	1
10.	2	20.	J	30.	3	40.	4
		் மைக்க குடை மிசேட அறி	வறுத்தல்∫ ஒரு ≀			L	லுமெත් வுள்ளி வீதம் × 40 = 8

කිකල ම හිම	ເພຍ ດາອັດສາ (ທານາ ມສະພາການພາຍ / All Rights Reserved] ເວລ ສີວັຣຊຸລແມ່ນສີເມ ເຫຼາ.ສູ່ສີ່ນີ້ແມ່ນ/New Syllabus
	NEW inn, sri Lanta Deservice i contraction and sent and s
	අධායයා පොදු සහතික පතු (සාමාතා පෙළ) විභාගය, 2017 දෙසැම්බර් கல்விப் பொதுத் தராதரப் பத்திர (சாதாரண தர)ப் பரீட்சை, 2017 டிசெம்பர் General Certificate of Education (Ord. Level) Examination, December 2017
	විදාහාව II ඛාණ්ණාශාභ II Science II II වැය තුනයි භාණාභ භාණාම් ක්රීම් Three hours
	Index Number:
* /	Write your answers in neat handwriting. Answer the four questions in Part A, in the space provided. Of the five questions in Part B answer three questions only. After answering, tie Part A and the answer script of Part B together and hand over.
severa	Part A raph given here has been drawn considering I diseases, according to the data gathered
	a census carried out recently in Sri Lanka ople who suffered from diseases.
,	What is the category that all diseases stated at a state of the state
1	Among the diseases given in the graph, from which disease do the most number of people suffer? High blood pressure (01)
1	According to the graph, which diseases are males more susceptible in comparison to the females?
	Heart diseases (01) Chronic kidney disease (01)
(iv) ((a) From the diseases given in the graph, name a disease which has a high tendency to affect the humans by persistent organic pollutants. Cancer/Wheeze/Chronic kidney disease (01)
	 b) Write two special features of persistent organic pollutants. • Persist in the environment for a long time period • Highly toxic • Accumulate in the body of organisms along food chains/ Getting subjected to bio accumulation / Getting
	(Two marks for any two ideas from above) (02) State a fact related to agriculture that is considered as a reason for the chronic kidney disease. Using pesticides/ insecticides/ weedicides/ Chemical fertilizers / Agro chemicals or Entering wheavy metals/ Arsenic/ Lead/ Cadmium/ mercury to the body.
(vi) (One step that Sri Lanka has taken at present to control people getting subjected to certain diseases is given below.
	Introducing a colour code for soft drinks to indicate their sngar content. Which disease given in the graph is likely to be reduced to a great extent in the coming years due to the above action?
	• Diabetes (01)

(vii)) Write two bad habits t	hat contribute fo	r getting subject	cted to cancer.				
Smoking / Chewing betel/ Using tobacco/ Using junk food/ Using alcohol/ Not following relevant protective methods (in various instances) / Burning garbage/ Using								
	artificial cosmetics/		•	•				
(viii)) Many diseases can be			•	•	• • •		
	environment which may	cause environm	nental pollution	are given below	Υ			
	1	-	tic bottles, Ba elopes,	atteries, Pen tul Filter papers	bes,			
	Classify the above items	· · · · · · · · · · · · · · · · · · ·			to make the w	vaste management		
	convenient for their dis	posal.			,	-		
	Naming any 4 gro	********	••••••	*****	* , , , , , , , , , , , , , , , , , , ,	(04)		
	when the questio	n is attempte	ed, give 02	2 marks	** * * * * * * * * * * * * * * * * * * *	•••••		
		·····						
		••••••	******		*****	•••••		
2. (A)	Based on the structural	features, vertebr	ates are classific	ed into five grou	ups. Consider th	e following table		
	prepared in relation to	it.		······································				
	Vertebrate group	Pisces Sea horse	A	B	Aves	C		
	Examples	Skate	Toad Salamander	Tortoise Cobra	Jungle fowl Parrot	Bat Whale		
	(i) Name the vertebrate			CUDIA		wnaie		
	A : Amphibians/A			ptilia (01)	_ Mammais	/ Mammalia (01)		
					C :			
	(ii) Name two cold blo Give 02 marks if				*****	(02)		
	(iii) To which vertebrate	group stated in 1	the table do the	humans belong?	mammalia	/ mammals/C		
	(iv) Write two specific f • Having a very					1011 1		
	Streamlined bo	-				j		
	•Forelimbs.are r					5		
(<i>B</i>)	You are assigned to she	ow experimental	ly, that oxygen	gas is produced	during photosy	ynthesis.		
	(i) You are provided w	ith the equipme	nt and material	s given below f	or the apparatu	is set-up relevant		
	to the experiment. I							
		A boiling tur	e, A glass fu	innei, A nyan	lla plant, Wa	ter		
				*				
		1		ing the plant b hat gas collect	•	and the tube		
		-		ed the plant b		nly (02)		
				nce of water	,	(01)		
1								
	(ii) Write an observation							
gas	gas bubbles are emitted (at the top of the boiling to	úbe	* * * * * * * * * * * * * * * * * * * *		nark for any na	e of them (01)		
-	(iii) How would you con	nfirm that the g	as produced du	ing this experim	ent is oxygen?			
buri	then the glowing splinter n with a bright flame		·····tgiv	re marks for an o	bservation equ	he splinter will at to this)…(01)…		
	(iv) Write the balanced	chemical equatio	n for the photo	synthesis proces	s.			
	6CO ₂ (g) + 6H ₂ O(l) 다이지	rophyll > C ₆ H	$_{12}O_6(s) + 6O_2(g)$) for gˈlight/ˈsunlight/	balanced equa			
				gaget/ sumight/ ary to mention p				

ſ

3.		the elements belonging to the second period of the periodic table are given below without following correct order.
		(B Li C Be Ne F O N)
	(i)	Arrange all the above elements as in the periodic table.
		Li , Be, B, C, N, O, F, Ne (02)
	(ii)	Write the electronic configuration of F.
		2, 7 (01)
	(iii)	(a) Write the chemical formula of the compound which is formed in the reaction between Li and O. Li ₂ O (02)
		(b) What is the type of chemical bond present in the compound stated in (a) above? Ionic bonds (01)
	(iv)	In the given box, draw the Lewis structure of CO_2 molecule which is formed with the combination of one C atom and two O atoms. (02)
	drawing	give 01 mark
-	(v)	Diamond and graphite are main allotropic forms of C. Which of these allotropic forms conduct electricity?
		Graphite (01)
	(vî)	From the elements in this period, write respectively, the element which has the lowest first ionization
		energy and the element which has the highest electronegativity. Li, F / Lithium, Fluorine (02)
		e following questions are based on an experiment on producing a sample of oxygen gas in the oratory.
	(i)	Among the compounds given below, which compound can be used to produce oxygen gas?
		$CaCO_3$, $KMnO_4$, $MgSO_4$: $KMnO_4$ (01)
	(ii)	What is the type of reaction that takes place during the production of oxygen gas when only the compound you stated above is used? decomposition (reactions)/ Chemical decomposition (reactions) (01)
	(iii)	Which equipment must be used to place the compound to carry out the experiment?
	•	Boiling tube / test tube (01)
-	(iv)	What is the name given to the method that is used in the laboratory, to collect oxygen gas produced in this experiment?
		downward displacement of water (01)
4.		e figure shows a ray diagram relevant to a situation in which lish in a pond is viewed by a kingfisher.
	(i)	Name the angles i and r shown in the ray diagram.
		i angle of incidence (01)
		r angle of refraction (01) (02)
	(ii)	Considering the two media in the figure, state what is $B \cdot A$
		given by the constant $\frac{\sin i}{\sin r}$.
		refractive index of air relative to water / $w^{\eta}a$ / $w^{\mu}a^{-1}$ (01)
	(iii)	Of the three positions A, B and C, at what position does the fish appear to the kingfisher? (01) B
1		



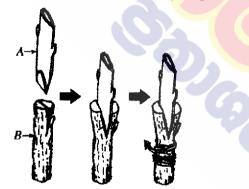
Part B

- Answer three questions only, from questions No. 5, 6, 7, 8 and 9.
- 5. (A) Some components in the human blood are given below.
 - * Red blood cells
 - * White blood cells
 - * Platelets
 - * Proteins
 - * Glucose

 - **∗** Urea
 - (i) Which blood cells are most abundant in blood?
 - (ii) Of the components given above,
 - (a) write two components that belong to blood plasma.
 - (b) state a nitrogenous waste material present in blood.
 - (iii) (a) Given below is a diagram of a blood cell that belongs to a certain type. To which component given above, does this cell belong?



- (b) State a function of the blood component to which the cell given in (a) above belongs.
- (iv) (a) Write a disease associated with blood circulatory system of the human.(b) In a person suffering from Dengue, which component decreases drastically?
- (v) Briefly explain, the process of regulation of blood glucose level in human.
- (B) (i) Steps of a plant grafting method are shown in the figure given below.

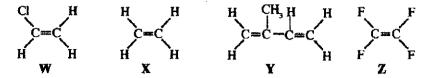


- (a) What is the name given to the above grafting method?
- (b) Write, respectively, the names given to parts A and B, according to this grafting method.
- (c) Of the parts A and B, characteristics of which part does the daughter plant get?
- (ii) Flower is the structure that contributes to sexual reproduction of plants.
 - (a) Name the three parts that the gynoecium of a flower consists of.
 - (b) Write two changes that take place in a flower after fertilization.

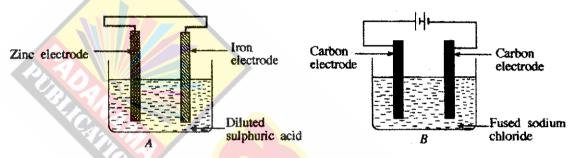
(Total marks 20)

			Total marks	20
		(b)	 Ovary develops to form the fruit sepals, petals, stamens and stigma are worn out (Fertilized) ova develop to seeds wall of the ovary becomes the pericarp wall of the ovule becomes the seed coat one mark each for any fact with the above ideas 	02
	(ii)	(a)	Ovary , Style , Stigma (01) (01)	03
			Characteristics of A/ Characteritics of the scion	01
14-14		(c)	or mentioning scion and stock respectively (02)/ if only scion has been written, give (01) mark	02
			B - stock (01)	
		(b)	A - scion (01)	
(B)	(i)	(a)	twig grafting / peg grafting	
			when the glucose level is decreased, Glucogon is secreted (by the islets of langerhan) and (deposited) glycogen is converted into glucose/ Decrease the rate of metabolic reactions (01). Blood glucose level is regulated	02
			blood glucose level is regulated.	
			Insulin is secreted (by the islets of langerhan) and then glucose is converted into glycogen. /Increase the metabolic reactions (01). Then	
	(v)	S)	when the glucose level is increased,	
4		(b)	(blood) platelets	01
	(iv)	(a)	Artherosclerosis / hypotension / high blood pressure / hypertension/ Low blood Pressure / thrombosis/ coronary thrombosis/ heart attack	01
			immunization/ producing antibodies any answer which gives any of the above ideas	01
		(b)	Protecting the body from diseases/ Engulfing pathogens /	
	(iii)	(a)	White blood cells	01
		(b)	Urea	01
			one mark for one answer	02
	(ii)	(a)	Proteins/ glucose/ Ca ²⁺ / urea	· · · · · · · · · · · · · · · · · · ·
(A)	(i)		Red blood cells / RBC	01

6. (A) The structures W, X, Y and Z given below are the monomers of some polymers.



- (i) State a derivative of ethene from the monomers W, X, Y and Z.
- (ii) Name the polymers which are formed by the monomers W, X and Y respectively.
- (iii) What is the natural polymer among the polymers that you stated in (ii) above?
- (B) In the following figures, two cells are given as A and B.



- (i) From the above two cells A and B, which is the electrolytic cell?
- (ii) Write one observation that could be obtained when the cell A operates.
- (iii) (a) Write the cathodic reaction that takes place in cell B.
 - (b) What is the name commonly given to the electrodes where oxidation reaction takes place in both cells?
- (iv) What is the reason for not using cell B in the production of sodium metal, industrially?
- (C) (i) Three instances relevant to separation of components from mixtures are given below.
 - ① Separation of various minerals from mineral sands
 - 2 Separation of petroleum by the mineral oil refinery
 - ③ Obtaining distilled water from well water

Write the separation methods used in the instances (1), (2) and (3) above, respectively.

- (ii) Distilled water is commonly used as a solvent when preparing standard solutions in laboratory.
 - (a) Calculate the mass of sodium chloride required to prepare a 100 cm³ of 1.00 mol dm⁻³ sodium chloride solution. (The molar mass of sodium chloride is 58.5 g mol⁻¹.)
 - (b) Write in order, the steps that are followed in the laboratory when preparing the sodium chloride solution mentioned in (a) above.

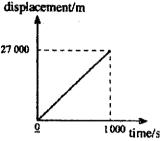
(Total marks 20)

(A)	(i)		W/Z or chloroethene / tetrafluoroethene	01		
	1		W- polyvinyl chloride / polychloroethene / PVC (01)			
	(ii)		X - polythene / polyethene / polyehylene (01)			
			Y - Rubber / natural rubber / polyisoprene (01)			
				03		
	(iii)		Rubber / natural rubber / polyisoprene	01		
(B)	(i)		В	0		
			liberation of gas bubbles at the iron electrode			
	(ii)		Dissolving/ decaying / getting eroded the Zinc electrode			
			the cell is getting heated			
			for any observation	01		
	(iii)	(a)	Na ⁺ (l) + e> Na(S) (Physical state is not essential)	02		
		(b)	Anode	01		
	(iv)		NaCl could be formed by the reaction of Cl ₂ gas produced at the anode and Na discharged at the cathode/ as Na is highly reactive/ Na and Cl ₂ can react again	01		
(C)	(i)		D physical method/ mechanical separation/ any relevant physical method (like filtering and magnetic separation)			
			© fractional distillation			
			③ simple distillation	0		
	(ii)	(a)	Mass of NaCl required to prepare a 1000 cm ³ solution of 1 mol dm ⁻³ = 58.5 g			
			Mass of NaCl required to prepare a 1cm ³ solution of 1mol dm ⁻³ = $\frac{58.5 \text{ g}}{1000}$			
			Mass of NaCl required to prepare a100cm ³ solution of 1mol dm ⁻³ = $\frac{58.5}{1000}$ X 100 g 1000 (01) = $\frac{5.85 (g)}{1000}$ (01)			
			Give marks for the calculation using n=cv	02		
			• measuring the mass (5.85 g) of NaCl (accurately using a triple beam balance) (01)			
		(b)	 putting measured NaCl completely into a volumetric flask (of 100 cm³) (01) 			
			ullet dissolving NaCl well by filling about the half of the flask with water. (01)			
			 adding / mixing by adding water upto the final voulme of 100 cm³ (01) 	04		

- 7. It is necessary to be vigilant and obey road rules when using high ways.
 - (i) It is important for the driver as well as passengers to wear seat belts in the vehicle when travelling on high ways. What is the reason for this?
 - (ii) Write down the Newton's law of motion which is connected to the answer you mentioned in (i) above.
 - (iii) The displacement-time graph for the motion of the vehicle A, which travelled on an express way from the beginning to the end at the displacement maximum permissible velocity is given here.

Here, it has been assumed that the express way is horizontal and it is in a straight line.

- Answer the following questions using the graph.
- (a) What is the length of the express way?
- (b) Calculate the **maximum** permissible velocity that a vehicle can be driven in that express way.



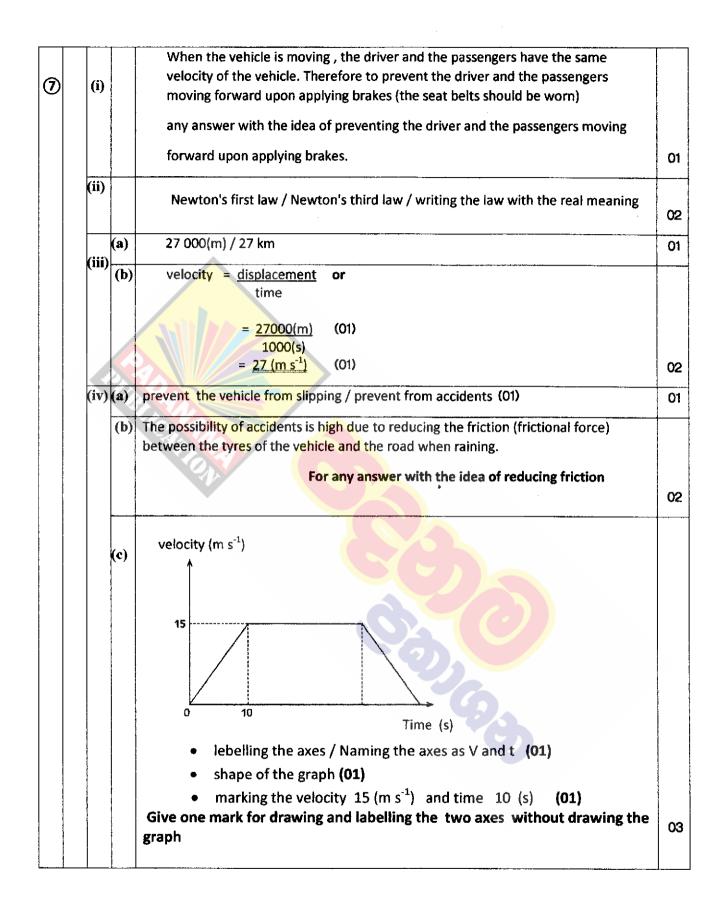
- (iv) In heavy rainy days, the drivers are advised to maintain 15 m s⁻¹ as the maximum velocity for a vehicle that is driven on the express way mentioned in (iii) above.
 - (a) What is the main reason for advising the drivers not to drive the vehicles at a higher velocity when heavy rain exists?
 - (b) Explain scientifically, your answer in (a) above.
 - (c) On a heavy rainy day, the motion of the vehicle B which travelled from the beginning to the end of the express way mentioned in (iii) above was as follows.

It started from the rest and uniformly accelerated in the first 10 seconds and acquired maximum velocity (15 m s⁻¹). Thereafter it travelled at the same velocity for a certain time and in the last 10 seconds it uniformly decelerated and came to rest at the end of the express way.

Including the given information, draw a rough sketch of the velocity-time graph for the motion of vehicle B.

- (d) Find the total time taken by vehicle B to travel on the express way.
- (e) If the mass of the vehicle B is 3 000 kg, Find its momentum at the instance when it travelled in the maximum velocity.
- (v) When drivers are driving vehicles, it is important to pay attention to the side mirrors in front of the vehicles for the prevention of accidents.
 - (a) What type of curved mirrors are used as side mirrors of the vehicles?
 - (b) How does paying attention to those mirrors, contribute to prevent road accidents when the vehicles are driven? (Total marks 20)

100 A



		trapezium	
		or	
		$27000 = \frac{1}{2} (10 + t + 10 + t) \times 15 $ (01)	
		t = 1790 (s) (01)	
		Total time = $1790 + 20$	
		= 1810 (s) (01)	03
	(e)	momentum = mass × velocity or momentum = mv or	
		$= 3000 (kg) \times 15 (m s^{-1}) \tag{01}$	
	X	$= 45000 (\mathrm{kg}\mathrm{m}\mathrm{s}^{-1}) \tag{01}$	
			02
(v)	(a)	convex mirror	0
	(b)	Larger area behind the vehicle can be seen well	
		 Larger area can be viewed through convex mirror at once Always upright images can be seen 	
		 The image distance is smaller than the object distance 	
		For any answer with a brief explanation	
			02
		Total marks	20
			L

3. (A) A diagram relevant to the experiment carried out by Mendel on inheritance, using garden pea plant is given below.

	Phenotype	Round seed	Wrinkled seed
Parents			
	Genotype	RR	rr
	Gametes	¥ R	¥ Ţ
F ₁ generation			
	Phenotype	Round	seed
	Genotype	R	lr -

- (i) What are the contrasting characters used in this experiment?
- (ii) In which step does meiosis occur during this process?
- (iii) (a) According to the above experiment, show, using a diagram, how characters are inherited in a mono-hybrid cross of F_1 generation.
 - (b) Write the genotypes and corresponding phenotypes of the offsprings obtained in F_2 generation in the above cross.
- (iv) Transmission of inherited characters to the next generation as stated above is common to all living organisms. Accordingly, explain briefly, the importance of not having marriages between blood relations.
- (B) Several electric appliances used in a house are given below.

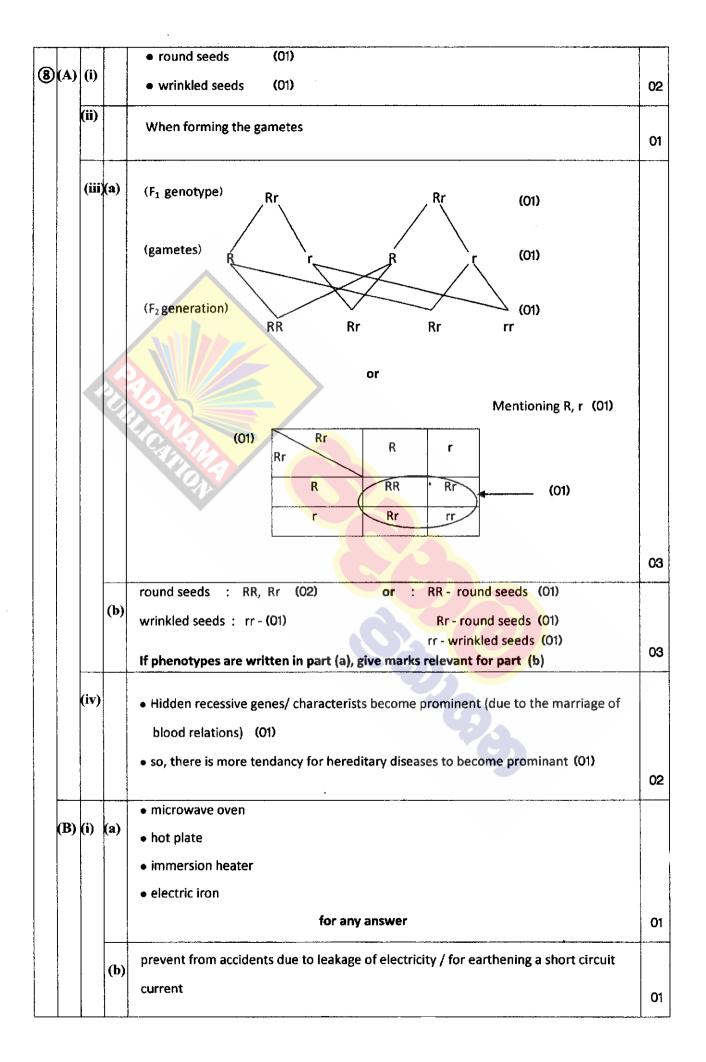
Television, Fluorescent lamp, Microwave oven, Immersion heater, Hot plate, Electric iron

- (i) When some appliances mentioned above are used, it is necessary to use three pin plugs.
 - (a) From these appliances, name one appliance with which a three pin plug must be used.
 - (b) What is the importance of using a three pin plug for the appliance you mentioned in (a) above?
- (ii) Write down a main energy form that the electric energy converts into, when the television operates.
- (iii) Television is operated by a remote control.
 - (a) As what type of waves are the signals sent to the television by the remote control?
 - (b) Write two characteristics of the wave type that you have mentioned in (a) above.
- (iv) The power of some appliances mentioned above are given in the following table.

Appliance	Power/W
A - Television	125
B - Fluorescent lamp	18
C - Microwave oven	1500
D - Electric iron	1200

- In a certain day all these four appliances were operated during 1 hour and 30 minutes period.
- (a) Arrange A, B C and D in the ascending order of the electric energy consumption during the time of operation. (Calculations are not expected)
- (b) Calculate the electric energy consumed by A during that time.

(Total marks 20)



1

		Total marks	20		
		$= \frac{375}{2000} = 675000 \text{ J or}$ $= \frac{3}{16} \text{ kWh/0.19kWh} (01) = 675 \text{ kJ} (01)$	0.		
		Consumed electric energy = $\frac{125}{1000} \times \frac{3}{2}$ (01) E = 125 × 1.5 × 60 × 60 (01)			
	(b)	E = Pt or $E = Pt$ or	0		
(iv)	(a)	B, A, D, C / B < A < D < C If the answer has been given with appliances, award marks			
		• Frequency is in the range 10 ¹² Hz - 10 ¹⁴ Hz approximately / Wave lenght is in the range 10 ⁻⁶ m - 10 ⁻³ m approximately for any two from the above	0		
	2	• invisible			
		• Type of transverse waves			
		No charge			
		 Not affected by external electric and magnetic fields 			
	(b)	• Travel at a speed of 3×10^8 m s ⁻¹ in vacuum			
(iii)	(a)	 Infra red rays/ IR rays / electromagnetic waves Do not require a medium for propagation 	C		
		for any answer	C		
		• radiation (energy)			
		• heat (energy)			
(ii)		• sound (energy)			

- 9. (A) The three solutions NaOH, HCl and NaCl of concentration 1.00 mol dm⁻³ are put separately into t tubes A, B and C.
 - (i) The tests carried out by a student to identify the solutions separately, and the observations ma are given in the table below.

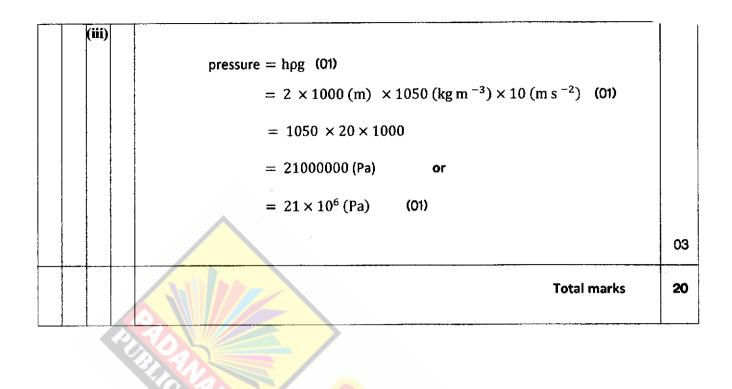
	Test	Observations
1.	Dipped red and blue litmus papers in the solution in tube A	 Blue litmus did not show any colour change Red litmus turned to blue
2.	Dipped red and blue litmus papers in the solution in tube B	• Red and blue litmus did not show any color change

Mention the solutions in test tubes A, B and C respectively.

- (ii) When 100 ml of each of the solutions NaOH and HCl stated above were mixed in a therma insulated vessel, the temperature of the mixture rose up to 5 °C.
 - (a) Write the balanced chemical equation for the reaction between NaOH and HCl.
 - (b) Calculate the heat change associated with the reaction mentioned above. (Take the specific h capacity of water as 4 200 J kg⁻¹ °C⁻¹ and the density of water as 1 g cm⁻³).
- (iii) Write two assumptions that you made when determining the heat change associated with the reactibetween NaOH and HCl stated above.
- B) The sun, atmosphere, land and the sea are natural resources.
 - (i) The sun's surface temperature is approximately 5800 K.
 - (a) What is the surface temperature of sun in Celsius?
 - (b) In which heat transferring method does the heat transfer from sun to earth?
 - (c) Explain scientifically, how the sea breeze is formed in day time due to sun's heat.
 - (ii) In a certain day, the atmospheric pressure at sea level was 76 cm Hg and the atmospheric pressure at 10 km above sea level was 20 cm Hg.
 - (a) Name a laboratory instrument which is used to take the measurements of atmospheric press stated above.
 - (b) What is the reason for the pressure difference observed above?
 - (iii) Calculate the hydrostatic pressure at a place 2 km deep from the sea level. Take the density sea water as 1050 kg m⁻³ and acceleration due to gravity as 10 m s⁻².

(Total marks 2)

			A - NaOH (01)	
9)(A)	(i)		B - NaCl (01)	
			C - HCl (01) or	
			NaOH, NaCl, HCl (01) (01) (01)	o
	(ii)	(a)	NaOH + HCI \longrightarrow NaCl + H ₂ O	0
		(b)	$Q = mc\theta$ (01) = $\frac{200}{1000} \times 4200 \times 5$ (01) = 4200 J or 4.2 k J or	
			heat change = -4200 J or -4.2 kJ (01)	0
	(iii)		 No any heat loss / the whole amount of heat produced is used to increase the temperature of the solution the specific heat capacity of the solution is equal to the specific heat capacity of water Density of the solution is equal to the density of water 	
-			any 2 from above	Q
(B)	(i)	(a)	(5800 - 273) ≠ 5527 (°C) or (5800 - 273.15) = 5526.85 (°C)	C
		(b)	by radiation	
		(c)	During the day time, the land surface get heated more relative to the sea (01). Then air near the land surface warms up and move upwards (01). Threfore (the air pressure closer to the land is low) an air current flows from the sea to the land (01).	C
	(ii)	(a)	barometer / aneroid barometer / mercury barometer	C
	†	(b)	The height of the air layer that is 10 km above the sea level is lesser than	
			the air layer closer to the sea level/ The pressure get decresed when the height of the air layer decreases / The pressure get decreased when going up from the sea level as the height of the air column decreases.	



50,03

0 සහ 11 ශෝණි සං	දහා ගුන්ථ නාමාවලි ය
(අ.පො.ස) සාමානය පෙළ 11 ගේණිය තෙටි සටහන්	Grade 11 - Short Notes
ll ශේණිය – කෙටි සටහන්	English Medium
සිංහල මාධ්ය	Buddhism
10-11 සිංහල වහාකරණ	Mathematics - 1
10-11 සිංහල සාහිතාය රසාස්වාදය	Mathematics - 2
] බුද්ධ ධර්මය 	Biology
කතෝලික ධර්මය	Physics
ු සිංහල භාෂාව හා සාහිතාය	Chemistry
සිංහල සාහිත <mark>ාාය සංගුහය</mark>	History
English Language	Business & Accounting Studies
ගණිතය - 1	Geography
] ග෯තය - 2	Civic Education
ජීව විදහාව	ICT
භෞතික විදාාව	Health & Physical Education
රසායන විදහාව	10-11 English Literary (Poetry)
ඉතිහාසය	10-11 English Literary (Drama)
වාාපාර හා ගිණුම්කරණ අධායනය	10-11 English Literary (Short Story
භූගෝල විදාාව	
පුරවැසි අධාාපනය	Grade 11 - Model Papers
පෙරදිග සංගීතය	English Medium
තර්තනය	Civic Education
නාටා හා රංග කලාව	
චිතු කලාව	
තොරතුරු හා සන්නිවේදන තාඤාණය	10 ශේුණිය – කෙටි සටහන්
සන්නිවේදනය හා මාධා අධායනය	සිංහල මාධය
සෞඛාය හා ශාරීරික අධාාපනය	සහළ මාජපස කම්ජිය යද්ශ
කෘෂි හා ආහාර තාක්ෂණය	නුදෙය සංවෙය කතෝලික ධර්මය
ගෘහ ආර්ථික විදහාව	සිංහල භාෂාව හා සාහිතාය
-	සංගල සාහිතාය සංගුහය
ගේුණිය – පුශ්නෝත්තර	සිංහල රචනා අත්වැල
සිංහල මාධ්	English Language
සිංහල භාෂාව හා සාහිතාය	ගණිතය - 1
	ගණිතය - 2
බුද්ධ ධර්මය ල	ජීව විදාහාව
ඉතිහාසය	භෞතික විදාහාව
වහාපාර හා ගිණුම්කරණ අධායනය -	රසායන විදහාව
පුරවැසි අධාාපනය	

ඉතිහාසය	Grade 10 - Short Notes				
ඉතිහාසය රූප සටහන් අශිුත කෙටි සටහන්	English Medium				
වාහාපාර හා ගිණුම්කරණ අධායනය - 1	Buddhism				
වාහාපාර හා ගිණුම්කරණ අධායනය - 2	Mathematics - 1				
භූගෝල විදාාව	Mathematics - 2				
 පුරවැසි අධාාපනය	Biology				
 ලපරදිග සංගීතය	Physics				
නර්තනය	Chemistry				
නාටා හා රංග කලාව	History				
චිතු කලාව	Business & Accounting Studies - 1				
 තොරතුරු හා ස <mark>න්නිවේද</mark> න තාඤණය	Business & Accounting Studies - 2				
 සන්නිවේදන <mark>ය හා මාධා අධ</mark> ායනය	Geography				
 ອອາລນຜ <mark>ັຫງ </mark>	Civic Education				
කෘෂි හා ආහාර තාක්ෂණය	ICT				
ගෘහ ආර්ථික විදාහාව	Health & Physical Education				
ජපත් භාෂාව					
	Grade 10 - Model Papers				
10 ශේුණිය – පුශ්නෝත්ත <mark>ර</mark>	English Medium				
සිංහල මාධප	Mathematics				
සිංහල භාෂාව හා සාහිතාය	Science				
ඩුද්ධ ධර්මය	Civic Education				
ගණිතය	Geography				
විදහාව	English Activity Book				
ඉතිහාසය	English Work Book				
පුරවැසි අධාාපනය					
භූගෝල විදහාව	අනෙකුත් ගුන්ථ				
පෙරදිග සංගීතය	ෙ හෙළදිව කතිකාවත				
	- අරුණශාන්ත අමරසිංහ				
පාඩමෙන් පාඩමට මාසික ඇගයීම්	හොල්මන් අවතාර සහ යකදුරන්				
සිංහල මාධ්	- අරුණශාන්ත අමරසිංහ				
10-ශෝණිය - විදහාව	📃 ිසිසු-ගුරු අත්පොත නාටා හා රංග				
11-ලේණිය - විදහාව	කලාව 10-11 ශේණි සඳහා (නව විෂය				
	නිර්දේශය) - නන්දන අල්ගේවත්ත				
සියලු ම ශේණි සඳහා කෙටි ස					
වැඩ පොත් අප සතුව තිබෙන අතර, මෙම ඕනෑම ගුන්ථයක්					
වට්ටම් සහිත ව ඔබේ නිවසට ම ගෙන්වා ගත හැකි ය.					