සියලු ම හිමිකම් ඇවිරිණි /All Rights Reserved

කලාප අධ්‍යාපන කාර්යාලය, හලාවත කලාප අධ්‍යාපන කාර්යාලය, හලාවත කලාප අධ්‍යාපන කාර්යාලය,හලාවත කලාප අධ්‍යාපන කාර්යාලය
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Zonal Educational Office, Chilaw Zonal Educational Office, Chilaw Zonal Educational Office, Chilaw Zonal Educational Office, Chilaw
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வலயக் கல்வி அலுவலகம், சிலாபம்
Zonal Educational Office, Chilaw

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අධ්‍යයන පොදු සහතික පත්‍ර සාමාන්‍ය පෙළ (පෙරහුරු) විභාගය - 2026
பொதுச் சான்றிதழ் சாதாரண தரம் (முன்னோடி) பரீட்சை - 2026
General Certificate of Education Ord. Level (Practice) Examination - 2026

විද්‍යාව I
விஞ்ஞானம் I
Science I

පැය එකයි
ஒரு மணிநேரம்
One hour

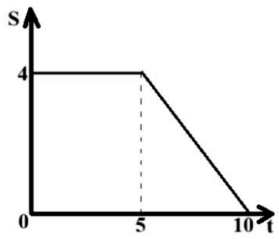
Instructions
- ✳ *Answer **all** questions.*
- ✳ *In each of the questions **1** to **40**, pick one of the alternatives* (1), (2), (3), (4) *which you consider is correct or most appropriate and **mark a cross** **(X)** **on the number corresponding to your choice In the answer sheet provided.***

1. A symptom caused by vitamin A deficiency in the human body is,
(1) ulcers beside moth (2) weakening of bones. (3) dryness of the skin (4) blindness.

2. The standard unit for measuring weight is,
(1) kg . (2) N. (3) W. (4) Pa.

3. The motion of an object is shown in the displacement-time graph below. Which option correctly describes its motion?

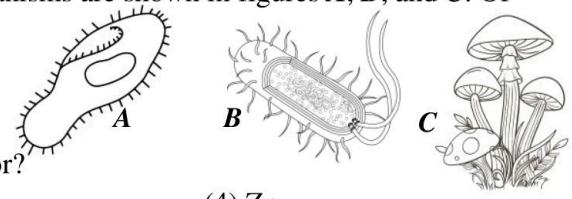
	0 s – 5 s	5 s – 10 s
(01)	Rest	Uniform velocity
(02)	Rest	Deceleration
(03)	Uniform velocity	Deceleration
(04)	Uniform velocity	Velocity decreasing and coming to rest.



4. What is the functional unit of the nervous system?
(1) Neuron (2) Nerve cell (3) Reflex arc (4) Medulla oblongata

5. Which of the following gases can be collected by the upward displacement of air?
(1) Hydrogen (2) Ammonia (3) Helium (4) Carbon dioxide

6. Three organisms belonging to several different groups of microorganisms are shown in figures ***A***, ***B***, and ***C***. Of these, the organisms belonging to the domain Eukarya are,
(1) ***A*** and ***B*** only. (2) ***A*** and ***C*** only.
(3) ***B*** and ***C*** only. (4) All ***A*** ,***B*** and ***C***.



7. Among the following elements, which is the intrinsic semiconductor?
(1) Al (2) P (3) Ge (4) Zn

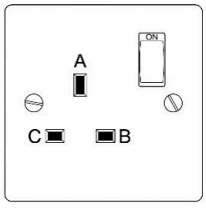
8. Which of the following is a stage where cell division takes place?
(1) implantation. (2) Fertilization. (3) Ovulation. (4) Developing embryo.

9. Two collinear forces are acting on an object, and the magnitude of one force is 2 N. If the resultant force is also 2 N, what could be the magnitude of the other force?
(1) 0 N (2) 1 N (3) 2 N (4) 4 N

10. In which tank of the salt production process is a compound that reacts with dilute acids to release CO_2 precipitated?
(1) Large shallow tank. (2) Medium tank.
(3) Small tank. (4) Small and medium tank.

11. Which of the following organelles/structures can be identified when observing cheek cells under a light microscope?
(1) Cytoplasm. (2) Vacuole. (3) Mitochondrion. (4) Golgi complex.

12. Which option shows the wires connected to positions A, B, and C of the socket shown in the figure, respectively?
(1) Live cable, Neutral cable and Earth cable.
(2) Live cable, Earth cable and Neutral cable.
(3) Neutral cable, Neutral cable and Live cable.
(4) Earth cable, Neutral cable and Neutral cable.



Past Papers Wiki

13. Consider the following statements regarding compounds with ionic bonds.

A. Most compounds dissolve in water.

B. They exist in the solid state at room temperature.

C. Ionic solids and molten liquids conduct electricity.

Which of them are true,

(1) ***A*** only. (2) ***B*** only. (3) ***A*** and ***B*** only. (4) All ***A*** ,***B*** and ***C***.

14. Which option correctly mentions the endocrine gland, hormone, and target organ?

(1) Pituitary - FSH - Ovary

(2) Hypothalamus - LH - Pituitary

(3) Pituitary - ADH - Liver

(4) Adrenal gland - ADH - kidney

15. The way forces act on a board hanging in equilibrium on a laboratory wall is shown in the figure. Several statements regarding this are given below.

A : T1 + T2 = W.

B : T1 ,T2 and W are co-planer.

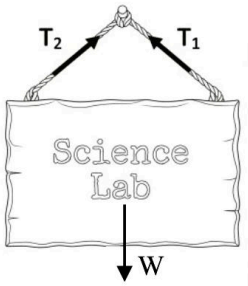
C : The resultant of all three forces is zero.

D : The direction of the resultant of T1 and T2 is opposite to W.

Which of this is true,

(1) A, B and C only. (2) A, B and D only.

(3) A, C and D only. (4) B, C and D only.



16. The first child of a married couple who are carriers of hemophilia was an affected female child. Which of the following is a true statement regarding their second, male child?

(1) Definitely a hemophilia carrier.

(2) Definitely a hemophilia patient.

(3) Never can be a healthy child.

(4) Can be a healthy child.

17. When a force of 40 N is applied on an object placed on a rough surface, it moves along the surface with a uniform velocity. Which of the following statements presented regarding this is incorrect?

(1) The unbalanced force acting on the object is zero.

(2) The frictional force acting from the contact surface is 40 N.

(3) The frictional force acting on the object is static frictional force.

(4) If the applied force is increased, the object undergoes acceleration.

18. The aqueous solution of which of the following oxides does not show a color change on pH paper?

(1) Cl_2O_7 (2) CO_2 (3) SO_2 (4) P_2O_5

19. Which option contains only invertebrates with an external or internal skeleton?

(1) Crab, Snail, Cuttle fish and Turtle.

(2) Tortoise, Turtle, Bivalve and Crab.

(3) Pangolin, Porcupine, Tortoise and Turtle.

(4) Bivalve, Cuttle fish, Crab and Snail.

20. Statement : Chromatography is used to identify the active components of medicinal plants.

Reason : All active components are volatile.

What is the correct statement regarding the statement and reason?

(1) Statement is true and the reason is false . (2) Statement is false and the reason is true .

(3) Both statement and reason are correct. (4) Both statement and reason are false.

21. The scientific name of the horse was written in a notebook in four different ways as follows. Which of them is the correct method?

(1) Equus caballus (2) Equus Caballus (3) *Equus caballus* (4) Equus caballus

22. Several ideas presented by a student regarding a few chemical reactions are given below:

A - The reaction of sodium with water is a single displacement reaction.

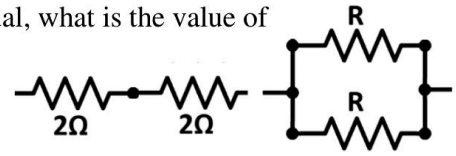
B - Heating Condos crystals is an example for chemical decomposition reaction.

C - Burning magnesium metal in air is a chemical decomposition reaction.

Which of this is true,

(1) ***A*** and ***B*** only. (2) ***B*** and ***C*** only. (3) ***A*** and ***C*** only. (4) All ***A*** ,***B*** and ***C*** only.

23. If the equivalent resistance values of both of these resistor networks are equal, what is the value of resistance **R**?

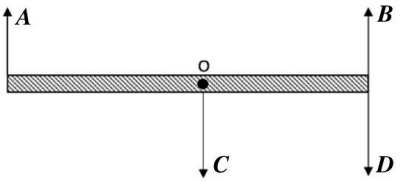


(1) 1Ω (2) 2Ω
(3) 4Ω (4) 8Ω

24. By consuming which of the following foods is the highest concentration of organic pollutants absorbed by seaweeds most likely to accumulate in humans?

(1) Sprats. (2) Canned fish. (3) Cuttle fish. (4) Maldives fish.

25. In the given rod, O is the pivot. What are the positions where two forces of equal magnitude must act for the moment of a couple to operate?



(1) A and B (2) A and C
(2) A and D (4) B and D

- **26** and **27** questions are based on the following chemical equation.

$$2Na\,(s) + 2H_2O\,(l) \longrightarrow 2NaOH\,(aq) + H_2\,(g)$$

26. How is the above reaction correct according to the nature of the chemical change and the thermal energy change?

	According to the nature of the chemical change	According to the thermal energy change
(1)	double displacement reaction	exothermal
(2)	single displacement reaction	exothermal
(3)	double displacement reaction	endothermal
(4)	single displacement reaction	endothermal

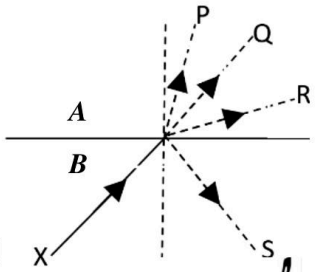
27. What is the mass of Na that must be reacted to obtain 2 g of hydrogen gas? (Na = 23, H = 1, O = 16)

(1) 2 g (2) 11.5 g (3) 23 g (4) 46 g

28. What is the option that includes a complex permanent tissue having only one type of living tissue and a simple permanent tissue having only non-living tissues?

(1) Xylem and Parenchyma. (2) Phloem and Collenchyma.
(3) Xylem and Sclerenchyma (4) Phloem and Sclerenchyma.

29. ***A*** and ***B*** are two transparent media with different refractive indexes. What could be the correct path(s) of the incident ray **X**?

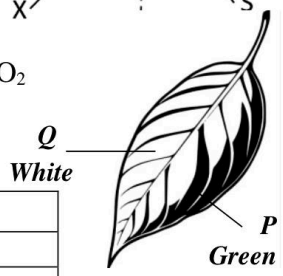


(1) P, Q and R (2) P, R and S
(2) P, Q and S (4) Q, R and S

30. Which of the following is the molecule that contains four pairs of bonding electrons and four lone pairs of electrons?

(1) O_2 (2) N_2 (3) Cl_2 (4) CO_2

31. A mosaic croton leaf is shown in the figure. Consider the following ***A***, ***B*** and ***C*** statements regarding ***P*** and ***Q***:



	P green	*Q white*
A	Starch is stored	Starch is not stored.
B	Cellular respiration takes place.	Cellular respiration does not take place.
C	Chloroplasts are present in the cells.	There are cells without chloroplasts.

Which of this is true,

(1) ***A*** and ***B*** only. (2) ***A*** and ***C*** only. (3) ***B*** and ***C*** only. (4) All ***A*** ,***B*** and ***C***.

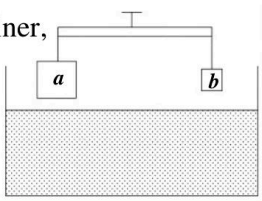
32. ***A***, ***B***, and ***C*** shown below are three isotopic forms of the element oxygen written by a student.

A - $^{18}_{8}O$ ***B*** - $^{17}_{7}O$ ***C*** - $^{16}_{9}O$

Which of this is true,

(1) ***A*** only. (2) ***B*** only. (3) ***A*** and ***C*** only. (4) All ***A*** ,***B*** and ***C***.

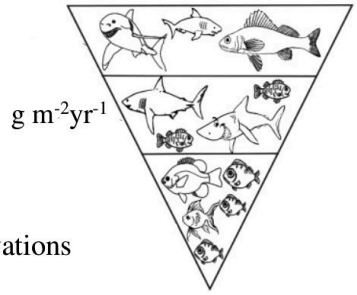
33. When two solid blocks are tied to a rod by threads, balanced, and immersed in a water container,



(1) There is no change in the horizontal position of the rod.
(2) The rod dips down on the right side.
(3) The rod dips down on the left side.
(4) It dips down on the left side when half of the metal block is submerged.

PAST PAPERS WIKI

34. Which of the following is the correct statement regarding the ecological pyramid represented in the figure?

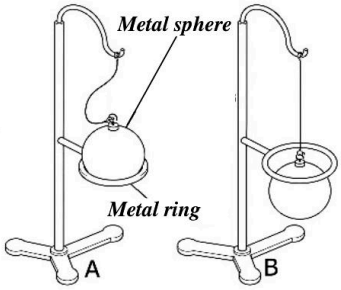


(1) It is a number pyramid .
(2) It is a biomass pyramid.
(3) It is an energy pyramid.
(4) It can be a number pyramid or biomass pyramid.

35. 5 g of MnO_2 was added to a hydrogen peroxide (H_2O_2) solution. Based on the observations obtained there, which of the following statements made is true?

(1) Hydrogen peroxide chemically reacts with MnO_2.
(2) At the end of the reaction, the mass of MnO_2 is less than 5 g.
(3) MnO_2 acts as a catalyst.
(4) The mass of the solution does not change at the end of the reaction.

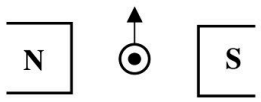
36. Several suggestions presented to pass a metal sphere held in a metal ring as shown in figure ***A*** through the ring as shown in figure ***B*** are given below.



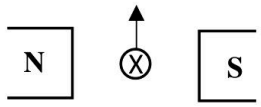
P : Heating the ring to a high temperature.
Q : Cooling the ring using dry ice.
R : Heating the sphere to a high temperature.
S : Cooling the sphere using dry ice.
Among these suggestions, those that could be successful are,

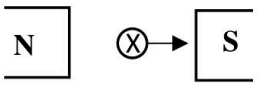
(1) ***P*** and ***R*** only. (2) ***P*** and ***S*** only. (3) ***Q*** and ***R*** only. (4) ***Q*** and ***S*** only.

37. Which of the following correctly indicates the direction of the force acting on a current-carrying straight conductor placed in a magnetic field?

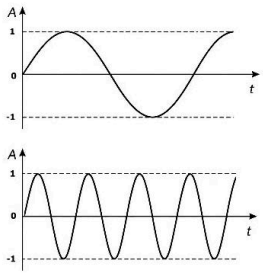
(1)


(2)


(3)


(4)


38. What is identical in the two sound waves shown in the figure?



(1) Frequency
(2) Wavelength
(3) Quality of sound
(4) Amplitude

39. It is stated in folklore that the lid of the pot used when boiling manioc should be left open. The reason for this could be,

(1) It can be boiled quickly as it allows water to evaporate easily.
(2) The degree to which the manioc is boiled can be easily observed.
(3) Preventing the risk of manioc becoming toxic.
(4) manioc becoming more tasty when boiled with the lid open.

40. The main scientific reason for using only the red color for brake lights in all vehicles is,

(1) Because the red color acts as a psychological warning symbolizing danger, stopping, and attention.
(2) Because the retina of the human eye captures the red color very rapidly, even at the periphery of vision.
(3) Because the red signal stands out clearly even amidst bright sunlight during the day.
(4) Because red light propagates forward even under conditions of dense fog, heavy rain, or smoke.

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பொதுச் சான்றிதழ் சாதாரண தரம் (முன்னோடி) பரீட்சை - 2026
General Certificate of Education Ord. Level (Practice) Examination - 2026

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விஞ்ஞானம் II
Science II

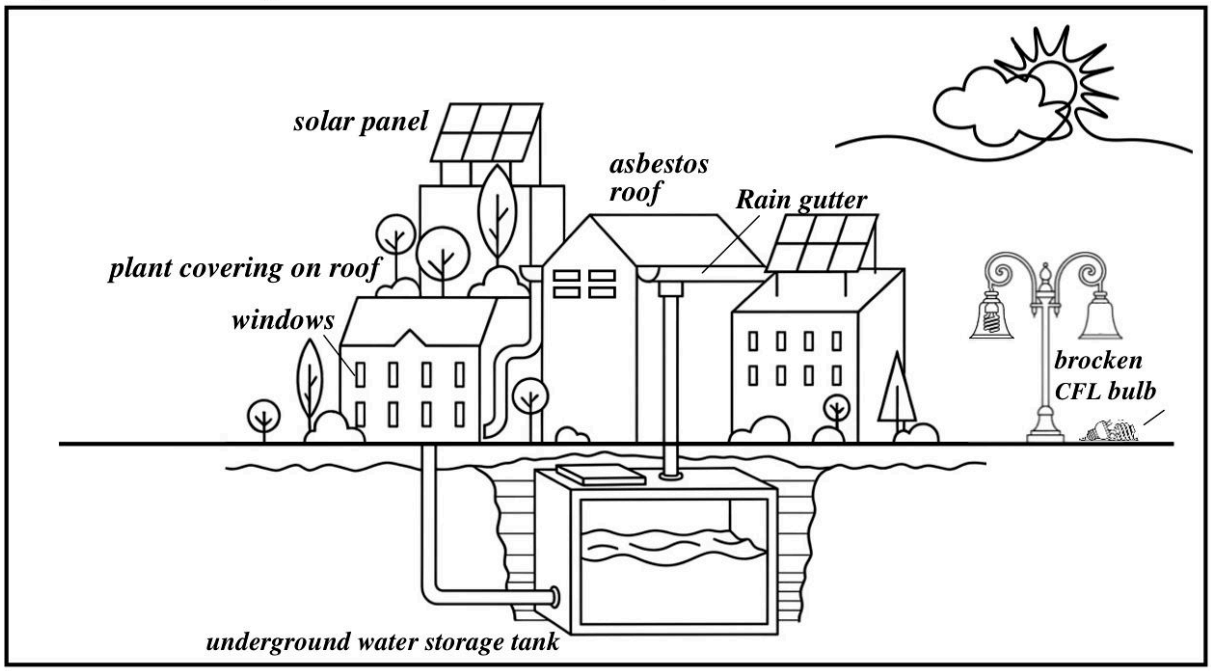
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மூன்று மணித்தியாலம்
Three hours

Index Number: .....

Instructions :
- 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**.

Part A – Structured Essay

1. (*A*) The figure shows the design of a modern house built in a dry zone area of Sri Lanka.



(i). Select the method used in each of the following instances from the figure and write it in the blank space in the table. (03)

Instance	Method
(a) Using solar energy for energy generation .	.....
(b) Utilization of rain water.	.....
(c) Maintaining indoor ventilation at an optimal level .	.....

(ii) Maintaining a plant canopy on the roof of the house can minimize the electricity cost incurred for air conditioning. Explain how this occurs ..... (01)

(iii) Although the sustainable use of energy is a main feature of this house, situations that could cause environmental pollution can also be identified. Name one instance each where solid and liquid particulate matter can be released into the environment.
- Solid particulate matter - ..... (01)
- Liquid particulate matter - ….....(01)

(iv) A student states that the carbon footprint can be minimized by installing an LED bulb instead of a broken fluorescent lamp. Explain simply.

….....(01)

Past Papers Wiki

(iv) Rain fell on this area, bringing an end to the prevailing severe drought, and the pH value of the underground water tank was recorded as 5.5.

(a) What is the direct impact of environmental pollution that causes the pH value of the underground water tank to decrease?

..... (01)

(b) Name two gaseous pollutants that you expect to have been concentrated in the atmosphere during the drought season for that.

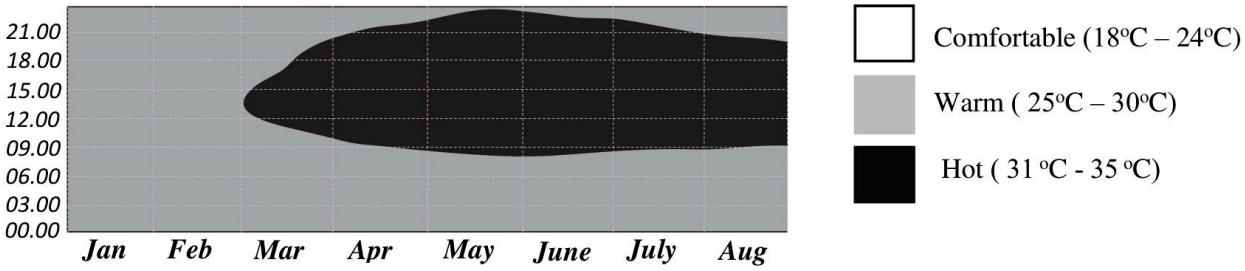
..... (01)

(v) What is the adverse environmental impact that causes severe dry climatic changes worldwide, even creating the strongest El Niño condition

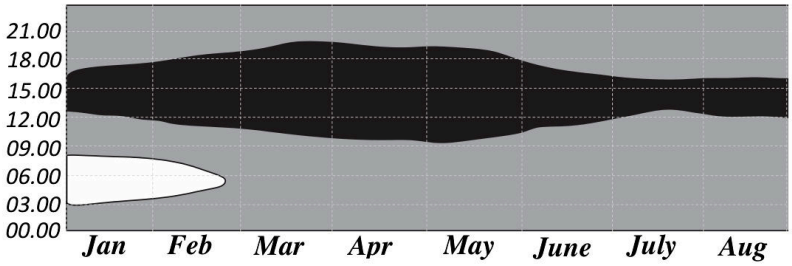
..... (01)

(B) According to the Global Weather Data System (ISD), the graphs of atmospheric temperature range variations in two certain cities in Sri Lanka from January to August in the year 2026 are given below.

Variation of atmospheric temperature range in Batticaloa city



Variation of atmospheric temperature range in Chilaw city



(i) In which city was the highest period of extreme heat recorded from March to August?

..... (01)

(ii) Name the two months during which a warm weather condition prevailed throughout the day in Batticaloa.

..... (01)

(iv) During which time span of the day was extreme heat constantly recorded in the city of Chilaw from February to the end of May ..... (01)

(v) Weather authorities state that the temperature felt by the human body can be higher than this depending on the humidity level.

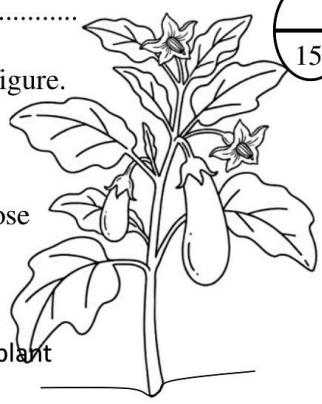
(a) How does the temperature felt by the human body increase as humidity increases?

..... (01)

(b) Write a health precaution that can be followed to minimize health hazards that may occur under hot weather conditions. (01) .....

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2. (*A*) An brinjal plant cultivated in the school garden had borne fruits as shown in the figure.



(i) The brinjal plant is a dicotyledonous plant. Draw the corresponding root system in the figure. (01)

(ii) How do the leaves and flowers of a monocotyledonous plant differ from those shown in the figure? (02)

(a) Leaves - .....

(b) Flowers - .....

(iii) Fruit production by self-pollination is a characteristic feature of the brinjal plant

(a) What is self-pollination ….....

..... (01)

(b) State one advantage and one disadvantage of self-pollination.

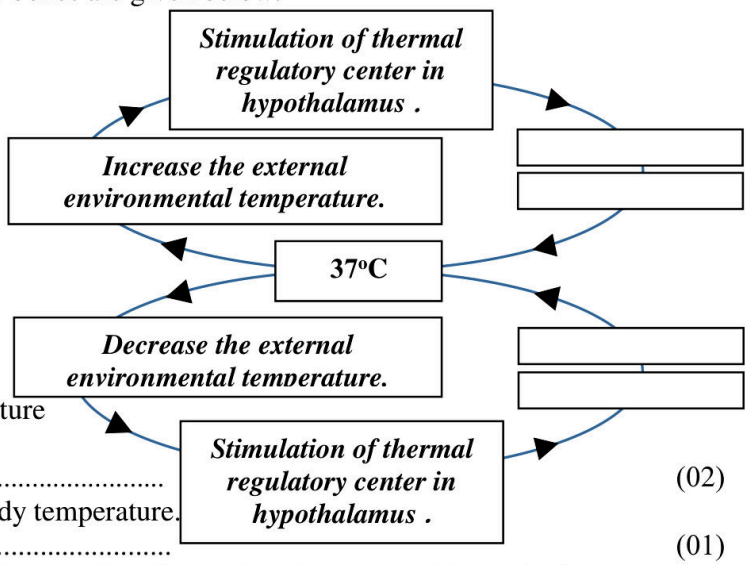
..... (02)

(iv) What is the structure present in the brinjal plant flower that remains attached to the fruit without shedding after fertilization?..... (01)

(***B***) The maintenance of a constant internal environment within the body of an organism is known as homeostasis.

(i) A note prepared by the teacher to explain how human body temperature regulation takes place and four cards A, B, C, and D that can be placed in the empty boxes are given below.

A. Stimulation of sweat glands
B. Erection of skin hairs.
C. Constriction of blood capillaries
D. Increase in the amount of blood supplied to the skin.



(a) Complete the empty boxes appropriately using cards ***A***, ***B***, ***C***, and ***D***. (04)

(b) Name two vertebrate groups whose body temperature cannot be maintained constant when the external environmental temperature changes..... (02)

(c) State an adaptation of mammals for regulating body temperature. ..... (01)

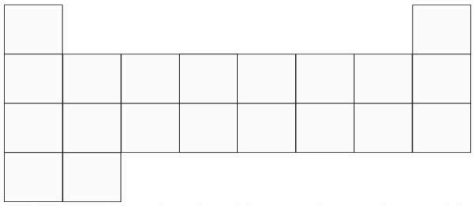
(ii) Apart from temperature regulation, state other two factors of the internal environment of the body that need to be regulated ..... (01)

3. (***A***) A note showing how some elements belonging to the reactivity series have been incorrectly written by a student is given here.

(i) In the empty boxes provided, write the correct symbol for any incorrectly written element symbols, and place a (✓) mark for the correctly written element symbols. (03)

(ii) Write on the dotted lines the method of extraction of elements belonging to the regions represented by ***A***, ***B*** and ***C***. (03)

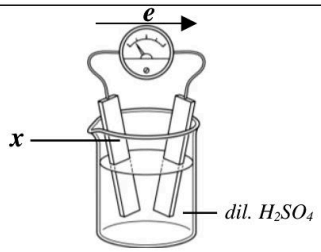
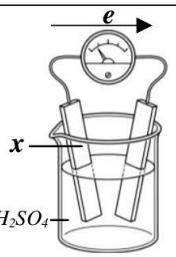
(iii) Select the elements belonging to the first 20 elements of the periodic table from among the elements in the reactivity series and place them correctly in the table below.(02)



A	K	
	Na	
	Ca	
	Mg	
	Al	
B	Si	
	Ir	
	Ti	
	Ld	
	H	
C	Cu	
	Hg	
	Ag	
	Pt	
	Au	

(***B***) Metals for electrochemical cells can be selected based on the reactivity of the elements.

(i) Complete the blanks in the table according to the information given regarding the **Zn – Cu** and **Fe – Cu** cells. (05)

Information	**Zn – Fe** cell	**Fe - Cu** cell
Rough sketch of the set up		
Most active element	……..	Fe
Anode reaction	$Zn(s) \longrightarrow Zn^{2+}(aq) + 2e$	……
Cathode reaction	……	$2H^+(aq) + 2e \longrightarrow H_2(g)$
x electrode	……	……

(ii) A student intends to modify the setup such that gas bubbles are evolved near both the anode and the cathode.

(a) State a condition in the above setups that needs to be changed, other than the solution

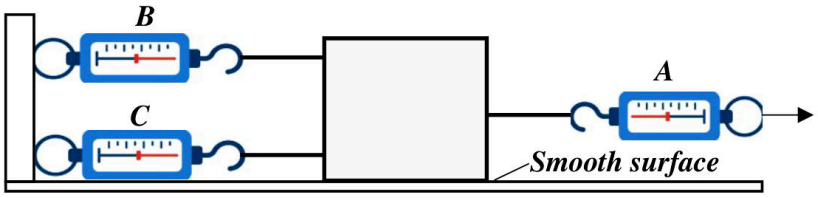
.....(01)

(b) What is the name of that process? .....(01)

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4. (***A***) The figure shows an apparatus set up to demonstrate the equilibrium of three parallel forces using a 1 kg mass block and Newton balances. Newton balances B and C are fixed to a support, while Newton balance A is pulled by applying a force.

(i) A force of 12 N is applied to Newton balance A in the direction indicated, and the wooden block remains at rest.



(a) Draw all the forces acting on the wooden block in this situation on the diagram. (02)

(b) Which Newton's law can be used to explain the state of motion of the wooden block in this situation? ..... (01)

(c) If the readings of Newton balances ***A***, ***B***, and ***C*** are F_A, F_B, and F_C respectively, state the relationship among F_A, F_B, and F_C.....(01)

(d) What is the conclusion that can be reached regarding the equilibrium of three parallel forces through this activity?..... (01)

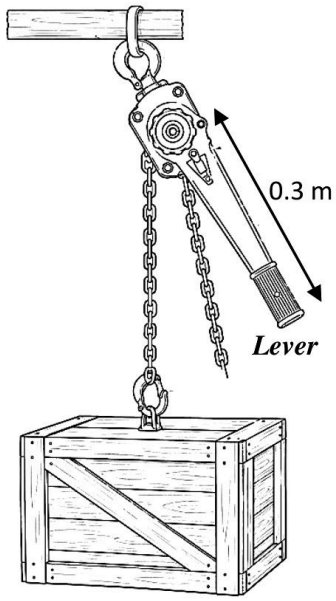
(ii) In this activity, the contact surface of the wooden block has been smoothed. What is the purpose of this?

..... (01)

(iii) During the activity, when a force of 20 N is applied to Newton balance ***A***, the strings connected to Newton balances ***B*** and ***C*** detach, and the wooden block moves forward. What is the initial acceleration of the wooden block in this situation?

..... (01)

(***B***) The diagram below shows a lever hoist used for lifting heavy loads. When the lever is moved, the object connected to the chain is lifted upwards.



(i) If the moment of the force when moving the lever is 3 Nm, what is the force that must be applied to move the lever?

..... (01)

(ii) If the length of the lever arm is increased without changing its mass, state whether the magnitude of the following quantities decreases, increases, or remains unchanged. (02)

(a) Force to be exerted : .....

(b) Moment of Force :.....

(iii) If the weight of the object is 500 N and the object is lifted upwards by 2 m, what is the gravitational potential energy stored in the object? (g =10 m s^{-2})

.....

..... (02)

(iv) If the man spends an energy of 12000 J within 4 minutes to do this work, calculate the power of the man

.....

.....

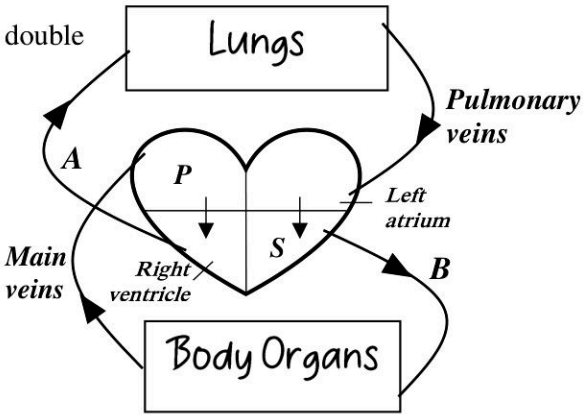
..... (02)

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Part B

- **Answer only three questions out of questions numbered 5, 6, 7, 8, and 9.**

5. (A) A schematic diagram drawn by a student to illustrate how double blood circulation takes place in humans is shown in the figure.

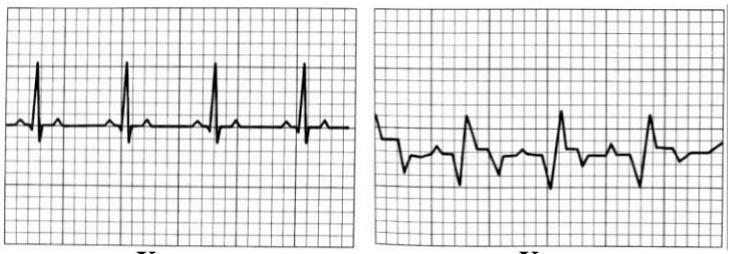


(i) What are the two types of blood circulation that take place in double circulation (02)

(ii) In which ventricle is the blood with a higher oxygen concentration found ?

(iii) Name chambers P and S, and blood vessels A and B. (02)

(iv) Two ECG traces of two individuals obtained by a doctor to examine the functioning of the heart are shown in figures ***X*** and ***Y***.



X ***Y***

(a) Which of ***X*** and ***Y*** is most likely to be the ECG trace of a healthy individual? (01)

(b) What are the three phases of the cardiac cycle represented by the ECG trace? (03)

(c) State two good habits that should be followed from childhood to maintain the circulatory system in a healthy state. (02)

(***B***) An electron microscopic diagram of a mitochondrion as depicted in a science magazine is shown here.

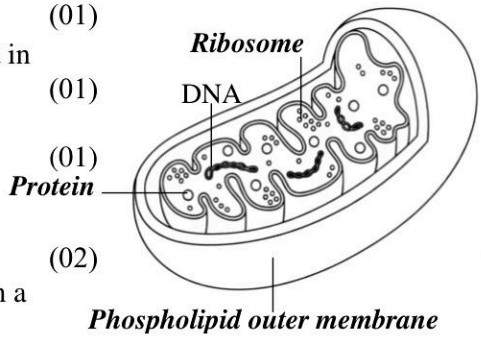
(i) What is the unlabeled **biomolecule** in the figure? (01)

(ii) What is the main function of mitochondria? (01)

(iii) What is the multinucleated muscle tissue that contains mitochondria in abundance to increase the rate of carrying out that function? (01)

(iv) Although mitochondria possess their own small DNA system, it is Controlled by another organelle. What is that organelle? (01)

(v) According to cell theory, can organelles including mitochondria be considered as living structures? What is the reason for your answer. (02)



(vi) It was described in that magazine that mitochondria originated from a bacterium engulfed by a cell during the evolutionary process.

(a) What is the domain to which bacteria belong? (01)

(b) State a characteristic of organisms belonging to that domain. (01)

(vii) Name two other double-membrane-bound organelles found in plant cells. (02)

(*20 Marks*)

6. (***A***) An apparatus set up for the production of a gas is shown below. Several additional apparatus and chemicals that may be required for it are given below.
(Water, dil. HCl , $CaCO_3$, Zn granules , Trough , Gas jar, Bee hive shelf)

(i) There is an error in this apparatus. State how to correct it. (01)

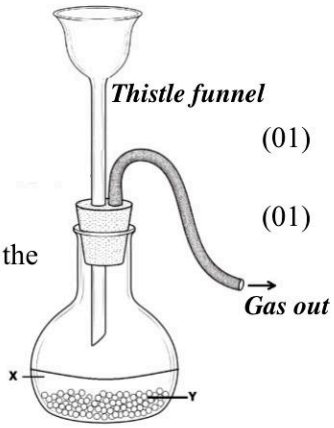
(ii) State respectively the substances X and Y that should be used for the production of hydrogen gas. (01)

(iii) Draw a labeled diagram of a suitable apparatus to collect the H_2 gas produced using the above substances. (02)

(iv) To confirm that the collected gas is hydrogen,

(a) State how the test is carried out, (01)

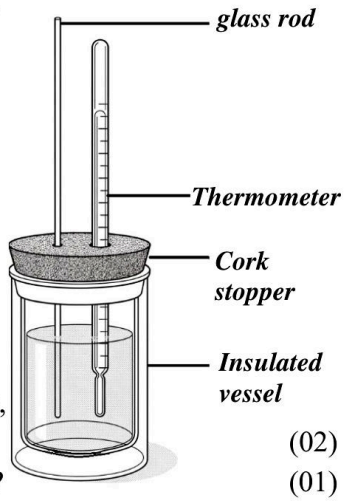
(b) State the observations obtained in it. (01)



(v) Is the acid used for the above activity a weak acid or a strong acid? State the reason for your answer. (02)

(vi) Briefly explain a chemical activity that can be carried out in the laboratory to identify the acid from among vessels containing water and acid without using indicators. (02)

(***B***) The following apparatus has been set up to calculate the heat change occurring in the reaction between 50 ml of sodium hydroxide solution and 50 ml of hydrochloric acid of equal concentrations.



(i) State two assumptions made in calculating the heat change using this method. (02)

(ii) The initial temperature of the NaOH solution and the HCl solution before mixing is 31^0C, and the maximum temperature after mixing is 33^0C.

(a) Accordingly, is this reaction exothermic or endothermic? (01)

(b) Calculate the heat change that occurred here. (02)
(***Density of water*** **1 g cm^{-3} ,** ***specific heat capacity of water*** **4200 J Kg^{0}C)**

(c) Draw an energy level diagram to show the heat change. (02)

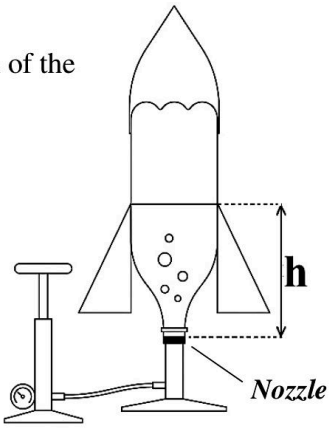
(iii) This reaction takes place according to the balanced chemical equation $HCl + NaOH \rightarrow NaCl + H_2O$. If the mass of NaOH that reacted with HCl is 4 g,

(a) What is the mass of NaCl present in the solution at the end of the reaction? (02)

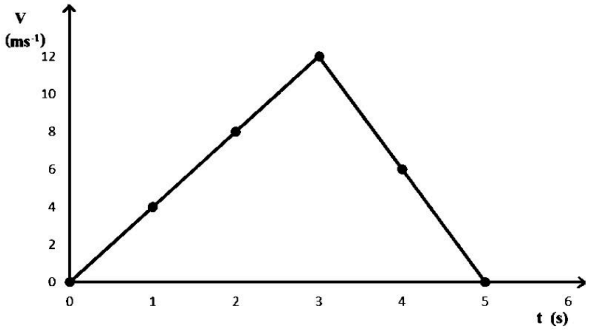
(b) What is the molar ratio between HCl and NaOH that participated in the reaction? (01)

(***20 Marks***)

7. (***A***) A water rocket constructed using a plastic bottle is shown in the figure. Water is filled up to a height of h.
(g =10 m s^{-2})



(i) The rough velocity-time graph drawn by a student regarding the motion of the rocket until it travels to the maximum height is shown below.



(a) What is the maximum velocity attained by the water rocket? (01)

(b) State the time interval during which the water rocket moved with deceleration. (01)

(c) Calculate the initial acceleration of the water rocket. (02)

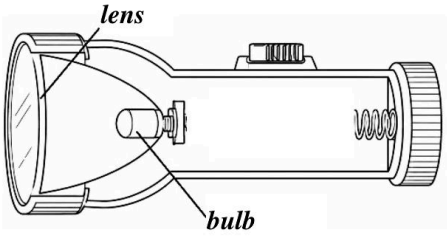
(d) Calculate the height traveled by the water rocket within 5 s. (02)

(ii) Explain the upward motion of the water rocket based on Newton's third law. (02)

(iii) When the bottle is in the secured position, if the height h is 15 cm, what is the pressure exerted by the water? (***Density of water*** 1000 kg m^{-3}) (02)

(iv) The pressure acting on the nozzle of the water rocket is equal to the sum of the pressure exerted by the water and the air pressure inside the bottle. If the air pressure inside the bottle is P_0, the height of the water column is h, the density of water is ρ, and the gravitational acceleration is g, write an expression for the pressure acting on the nozzle. (01)

(***B***) To obtain a parallel light beam from the diverging light emitted by the torch bulb shown in the figure, a lens with a focal length of 4 cm has been used in front of it.



(i) Which type of lens should be used for this? (01)

(ii) At what distance from the mirror should the lens be placed to obtain a parallel light beam? (01)

(iii) Draw a ray diagram to show the path of light as in the above (ii) situation. (03)
(Representing only two light rays is sufficient.)

(iv) If a reflector is used instead of this lens, a student states that a concave mirror made of pieces of plane mirrors is more suitable than a single concave mirror. Explain simply (01)

(***C***) Given below are several forms of electromagnetic waves.

x rays , Infra red waves, light rays , radio waves

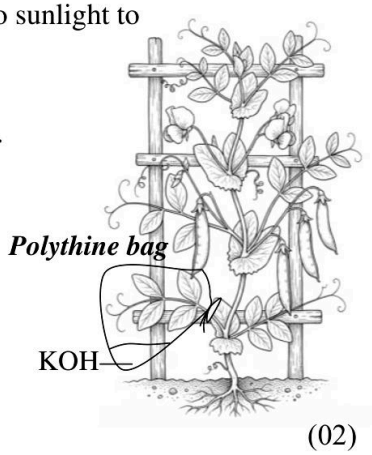
(i) Among the above waves, what are the two main forms of electromagnetic waves that reach the Earth's surface from the Sun? (01)

(ii) State a practical application of X-rays. (01)

(iii) State two differences between an electromagnetic wave and a sound wave. (02)

(*20 Marks*)

8.(*A*) The figure shows an activity conducted using a garden bean plant well exposed to sunlight to demonstrate that CO2 is necessary for photosynthesis.



(i) What is the purpose of adding KOH into the polythene bag? (01)

(ii) A few hours after tying the polythene bag, a leaf inside it was tested for starch.

(a) State two steps of the starch test. (01)

(b) State the purpose of performing one of those steps. (01)

(iii) Due to omitting a very important step that should have been performed two days before tying the polythene bag, the expected observations were not obtained, and both leaves turned blue-black.

(a) What was the missed step that caused the experiment to fail? (01)

(b) What is meant by the leaf turning blue-black in the starch test? (01)

(iv) Write down the balanced chemical equation for photosynthesis (02)

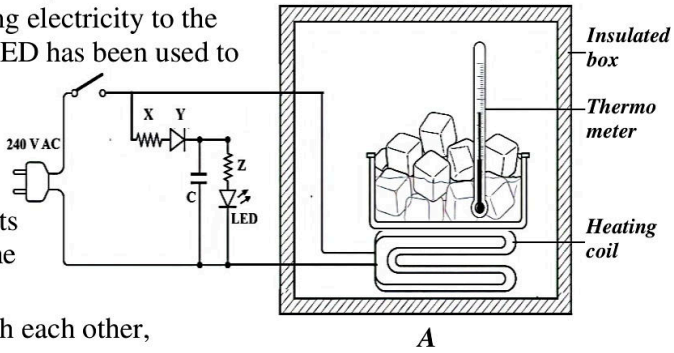
(v) The garden pea plant bore red flowers. The seeds obtained by artificially pollinating them with another plant bearing white flowers were replanted.



(a) If all the plants bore red flowers, show how the F1 generation is produced using a Punnett square.
(*Take the dominant trait as **R** and the recessive trait as **r**.*) (02)

(b) State the phenotypic ratio of the F2 generation. (01)

(*B*) Figure ***A*** shows an apparatus set up by students for an activity related to heat. The variation in temperature of the container containing ice within 10 minutes after supplying electricity to the apparatus is shown in graph ***B***. A circuit containing an LED has been used to indicate that the apparatus is operating.



A

(i) How long did it take for the ice to melt completely from the start of the activity? (01)

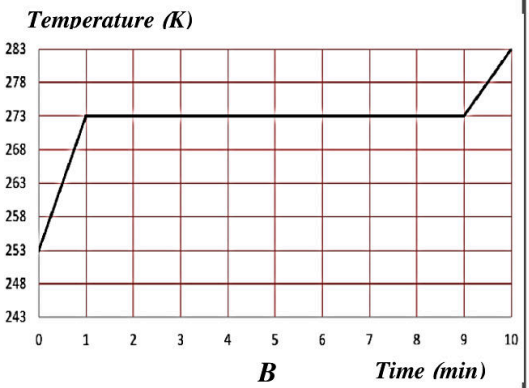
(ii) State the mathematical relationship used by the students to convert the reading of the Celsius thermometer to the Kelvin scale. (01)

(iii) If the heating coil and the containers are in contact with each other, what is the main mode of heat transfer from the heating coil to the container. (01)

(iv) If the specific heat capacity of liquid water is 4200 J kg^{-1} K^{-1}, what is the amount of heat absorbed by the liquid water during the final minute? (02)

(v) What is the purpose of including components Y and C in the circuit? (02)

(vi) If the heating coil draws a current of 3 A, what is the power of the heating coil? (01)



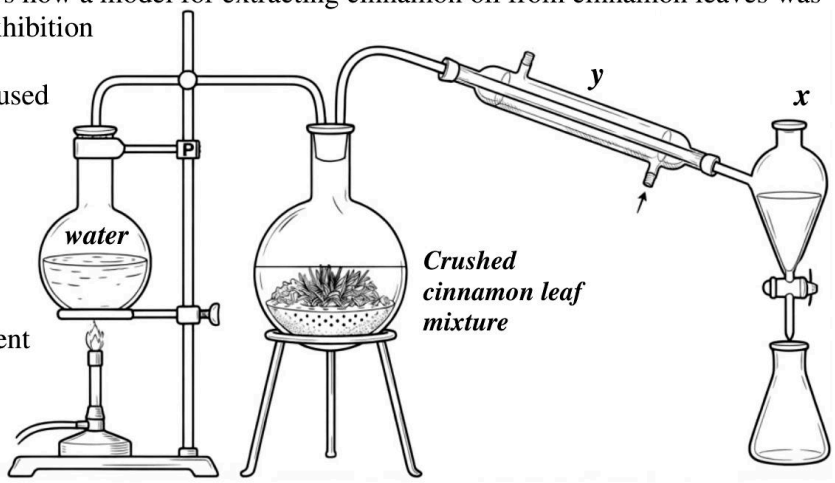
B

Past Papers Wiki

(vii) What is the total amount of electrical energy consumed by the heating coil during the period of the activity? (02)

(*20 Marks*)

9. (*A*) The figure shows how a model for extracting cinnamon oil from cinnamon leaves was presented by a student at a science exhibition. The figure shows how a model for extracting cinnamon oil from cinnamon leaves was presented by a student at a science exhibition



(i) What is the name of this technique used for separating mixtures? (01)

(ii) Identify and name the apparatus ***x*** and ***y***. (02)

(iii) State an another instance where apparatus ***x*** is used. (01)

(iv) An error has been made by the student in connecting the apparatus. What is that error ? (01)

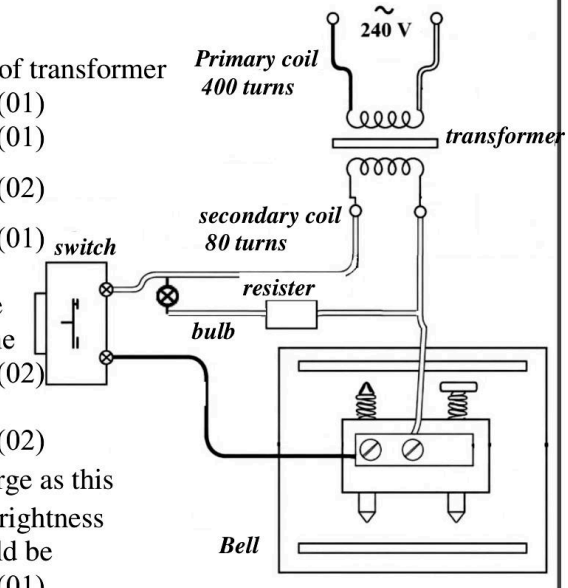
(v) Why is steam used to supply heat to the cinnamon leaf mixture? (01)

(vi) Cinnamon leaves have been used here as a mixture cut into small pieces and crushed, and the student states that the extraction of cinnamon oil is more efficient thereby.

(a) Do you agree with that? What is the reason for your answer? (02)

(b) Write two other factors that affect the rate of reaction. (02)

(*B*) In an electric bell circuit operating on household main electricity, a small bulb has been connected to the electric bell switch shown in the figure for identification.



(i) According to the number of turns in the transformer, what type of transformer is this? (01)

(ii) What are the two principles on which a transformer operates? (01)

(iii) Calculate the output voltage of this transformer. (02)

(iv) Can this circuit be operated by supplying a 240 V direct current? (01)

(v) The current flowing through the bulb is 0.1 A and the resistance of the bulb is 120 Ω. Calculate the potential difference across the ends of the bulb. (02)

(vi) The colors of the connected resistor in order are orange, blue, and brown. What is the value of the resistor? (02)

(vii) A student states that two resistors, each with a value twice as large as this resistor, can be connected instead of this resistor such that the brightness of the bulb does not change. Show how two such resistors should be connected by drawing them using symbols. (01)

(*20 Marks*)

PAST PAPERS WIKI

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11 ශ්‍රේණිය	පිළිතුරු පත්‍රය -	විද්‍යාව 2026

වැදගත් :

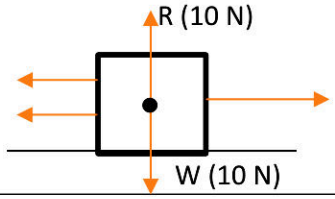
- මෙම පිළිතුරු පත්‍රය ලකුණු වල සංගත බව ආරක්ෂා කරගැනීමට සිදුකරන මහපෙන්වීමකි.
- පිළිතුරු පත්‍රයේ සඳහන් නොවූවද නිවැරදි පිළිතුරු ලියා ඇත්නම් (ප්‍රශ්නයට අදාළ සංකල්පය තහවුරු කරගෙන පිළිතුර ලියා ඇති විට) අදාළ ලකුණු ප්‍රදානය කරන්න.
- අවසන් පිළිතුර සඳහා ඒකකය සමඟ පිළිතුර දැක්විය යුතු අවස්ථාවල ඒකකය නොමැති විට ලකුණු ප්‍රදානය නොකරන්න.
- ලකුණු ප්‍රදානය කිරීමේදී හා පසුව පිළිතුරු සිසුන් සමඟ සාකච්ඡා කිරීමේදී අපොස සා/පෙළ විභාගයට සිසුන් හුරු කිරීමක් ලෙස සලකා කටයුතු කරන්න.

පිළිතුරු පත්‍රය - I පත්‍රය

1	3	**5**	4	**9**	4	**13**	4	**17**	3	**21**	1	**25**	2	**29**	2	**33**	2	**37**	1
2	2	**6**	2	**10**	1	**14**	1	**18**	2	**22**	1	**26**	2	**30**	4	**34**	2	**38**	4
3	1	**7**	3	**11**	1	**15**	4	**19**	4	**23**	4	**27**	4	**31**	2	**35**	3	**39**	3
4	3	**8**	4	**12**	4	**16**	4	**20**	1	**24**	4	**28**	3	**32**	1	**36**	2	**40**	1

A කොටස - ව්‍යුහගත රචනා

1.				
(A)	(i)	(a)	වහල මත සූර්ය පැනල සවිකර තිබීම	01
		(b)	භූ ගත ජල ටැංකිය ඉදිකර තිබීම	01
		I	වා කවුළු වැඩි සංඛ්‍යාවක් තැබීම.	01
	(ii)		ශාක වැස්ම නිසා නිවස ඇතුලත රත්වීම අවම වේ. එවිට වායුසමන යන්ත්‍රය මගින් සිසිල් කිරීම සඳහා වැඩි කාර්යක්ෂමතාවකින් ක්‍රියාකිරීම අවශ්‍ය නැත. එමනිසා ඒ සඳහා වැයවන විදුලි පිරිවැය අවම ය. යන අදහසට	01
	(iii)		ඝන අංශුමය අපද්‍රව්‍ය - ඇස්බැස්ටෝස් ද්‍රව අශුමය අපද්‍රව්‍ය - රසදිය (කැඩුණු CFL බල්බ මගින්)	02
	(iv)		ප්‍රතිදීපන පහන් වලට වඩා *LED* වල විදුලි පරිභෝජනය අවමය. විදුලි පරිභෝජනය අවම වන විට ඊට අනුරූපව පොසිල ඉන්ධන දහනයෙන් ඉහළ යන *CO2* ප්‍රමාණය ද අවම වීම ය.	01
	(v)	(a)	අම්ල වැසි ඇතිවීම.	01
		(b)	CO2 , Nox.	02
(B)	(i)		මඩකලපුව	01
	(ii)		ජනවාරි, පෙබරවාරි	01
	(iii)		12.00 සිට 18.00 දක්වා	01
	(iv)	(a)	දහදිය වාෂ්ප වී නොයන නිසා./දහදිය සම මතුපිට රැඳී තිබීම	01
		(b)	ප්‍රමාණවත් පරිදි ජලය පානය කිරීම වැනි	01
				15
2.				
(A)	(i)		මුදුන් මූල පද්ධතිය ඇඳ තිබීම සඳහා	01
	(ii)	(a)	පත්‍ර - ජාලාභ නාරටි වින්‍යාසය	01
		(b)	පුෂ්ප - පන්චාංකී වීම	01

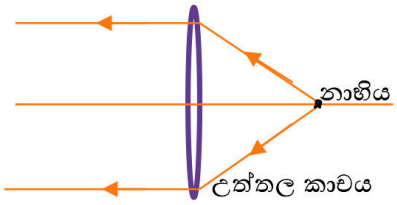
	(iii)	(a)	පුෂ්පයක පරිණත පරාග එම පුෂ්පයේම කලංකය මත තැන්පත් වීම.	01
		(b)	වාසිය - මාතෘ ශාකයට බොහෝ සෙයින් සමාන දුහිතෘ පැළ ලැබීම අවාසිය - ප්‍රභේධන අවම වීම.	02
	(iv)		මණිපත්‍ර	01
(B)	(i)	(a)	උෂ්ණත්වය වැඩි වී විට - A හා D උෂ්ණත්වය අඩු වූ විට - B හා C	04
		(b)	පිස්කේස්, ඇම්ෆිබියා, රෙප්ටීලියා	02
		(c)	රෝම වලින් ආවරණය වූ සම.	01
	(ii)		රුධිරගත ග්ලූකෝස් මට්ටම, ජල තුල්‍යතාව	01
				15
3.				
(A)	(i)		<table><tr><td>K</td><td>Na</td><td>Ca</td><td>Mg</td><td>Al</td><td>Si</td><td>Ir</td><td>Ti</td><td>Ld</td><td>H</td><td>Cu</td><td>Hg</td><td>At</td><td>Pt</td><td>Au</td></tr><tr><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>Zn</td><td>Fe</td><td>Sn</td><td>Pb</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr></table>	03
	(ii)		A - විලීන සංයෝගය විද්‍යුත් විච්ඡේදයය B – රසායනික ඔක්සිහරණය C - සරල භෞතික ක්‍රම	03
	(iii)		<table><tr><td>H</td><td colspan="7"></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Na</td><td>Mg</td><td>Al</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>K</td><td>Ca</td><td colspan="7"></td></tr></table>	02
(B)	(i)		වඩා සක්‍රීය ලෝහය - Zn ඇනෝඩ ප්‍රතික්‍රියාව - $Zn(s) \longrightarrow Zn^{2+}(aq) + 2e$ කැතෝඩ ප්‍රතික්‍රියාව - $2H^+(aq) + 2e \longrightarrow H_2(g)$ X =Zn X = Fe	05
	(ii)	(a)	ලෝහ පතුරු වෙනුවට කාබන් ඉලෙක්ට්‍රෝඩ යොදා ගැනීම.	01
		(b)	විද්‍යුත් විච්ඡේදනය	01
				15
4.				
(A)	(i)	(a)	 තිරස් බල සඳහා 01 සිරස් බල සඳහා 01	02
		(b)	පළමු නියමය	01
		(c)	$F_A = F_B + F_C$	01
		(d)	සමාන්තර ව එක ම දිශාවට ක්‍රියා කරන බල දෙකක සම්ප්‍රයුක්තය සෙවීමට එම බල දෙක එකතු කළ යුතු ය. දිශාව, සමාන්තර බල දෙක යෙදූ දිශාවට වේ.	02
	(ii)		ඝර්ෂණයේ බලපෑම අවම කිරීම	01
	(iii)		F = ma 20 N = 1 kg x a a = 20 N/1 a = 20 m s^{-2}	01

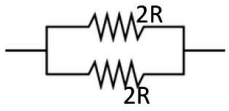
(B)	(i)		බල සූර්ණය = බලය x බලයේ ක්‍රියා රේඛාවට ඇති ලම්බ දුර 3 N m = F x 0.3m F = 10 N	01
	(ii)	(a)	අඩුවේ	01
		(b)	වෙනස් නොවේ.	01
	(iii)		Ep = mgh = 50 kg x 10 m s^{-2} x 2 m = 1000 J	02
	(iv)		කාර්යක්ෂමතාව = කෙරුණු කාර්යය/ කාලය P = 12000 J/240 P = 50 W	02
				15
5.				
(A)	(i)		සංස්ථානික සංසරණය , පුප්ඵුශීය සංසරණය	02
	(ii)		S / වම් කෝෂිකාව	01
	(iii)		P - දකුණු කර්ණිකාව S - වම් කෝෂිකාව A - පුපිඵුශීය ධමනිය B - සංස්ථානික මහා ධමනිය	02
	(iv)	(a)	X	01
		(b)	කර්ණික ආකුචය කෝෂික අංකුචය කර්ණික කෝෂික විස්තාරය(පූර්ණ හෘත් විස්තාරය)	03
		(c)	නිවැරදි යහපත් පුරුදු දෙකකට	02
(B)	(i)		කාබෝහයිඩ්‍රේට	01
	(ii)		සෛලීය ශ්වසනය මගින් ශක්තිය නිපද වීම.	01
	(iii)		කංකාල පේශි පටකය	01
	(iv)		න්‍යෂ්ටිය	01
	(v)		නැත. ජීවයේ ව්‍යුහමය හා කෘත්‍යාමය ඒකකය සෛලය වේ.	01
	(vi)	(a)	බැක්ටීරියා	01
		(b)	නිවැරදි ලක්ෂණයක් සඳහා	01
	(vii)		න්‍යෂ්ටිය, හරිතලව	02
				20
				20
6.				
(A)	(i)		තිසල් පුනීලය බඳුනේ පතුලට ආසන්නව තිබිය යුතුය.	01
	(ii)		X - ත. සල්ෆියුරික් අම්ලය Y - සින්ක් කැබලි	02
	(iii)		ජලයේ යටිකුරු විස්ථාපනය නිරූපණය කෙරෙන නම් කළ රූප සටහන.	02
	(iv)	(a)	දල්වන ලද කීරක් වායු සරාවට ඉහළින් ඇල්ලීම.	01

		(b)	"පොප්" හඬ නංවමින් දැල්ල නිවී යාම.	01
	(v)		ප්‍රබල අම්ලයකි. ජලීය ද්‍රාවණයක දී පූර්ණ ලෙස අයනීකරණය වීම.	02
	(vi)		ගැලපෙන ලෝහ හෝ කාබනේට බයිකාබනේට වැනි අම්ල සමග ප්‍රතික්‍රියා කරන ජලය සමග ප්‍රතික්‍රියා නොකරන සංයෝගයක් භාවිතයෙන් නිවැරදි ක්‍රමයක් සඳහා	02
(B)	(i)		මිශ්‍රණයේ වි.තා.ධා. ජලයේ වි.තා.ධා ට සමාන බව. මිශ්‍රණයේ ඝණත්වය ජලයේ ඝණත්වය ට සමාන බව.	01
	(ii)	(a)	තාප දායක	01
		(b)	$Q = mc\Theta$ $Q = 0.1\ kg \times 4200\ J\ kg^{0}C \times 2\ ^{0}C$ $Q = 840\ J$	02
		(c)	ශක්තිය HCl + NaOH (aq) $NaCl + H_2O$	02
	(iii)	(a)	$n = m/M \qquad n = 4\ g/40\ gmol^{-1} \qquad n = 0.1\ mol$ $0.1mol = m/58.5\ g\ mol^{-1}$ $m = 0.1 \times 58.5$ $m = 5.58\ g$	02
		(b)	1 : 1	01
				20
7.				
(A)	(i)	(a)	$12\ m\ s^{-1}$	01
		(b)	2 s	01
		(c)	ආරම්භක ත්වරණය = ප්‍රස්තාරයේ අනුක්‍රමණය අනුක්‍රමණය = y ඛණ්ඩාංක වෙනස/ x ඛණ්ඩාංක වෙනස m = 12 -0 /3-0 m = 4 ත්වරණය = $4\ m\ s^{-2}$	02
		(d)	රොකට්ටුව ගමන් කළ උස = ප්‍රස්තාරයේ වර්ගඵලය (සම්පූර්ණ ත්‍රිකෝණයේ වර්ගඵලය එකවර ද ගණනය කළ හැක) = (½ x 3 x 12) + (1/2 x 2 x 12) = 18 +12 =30 m	02
	(ii)		ක්‍රියාව - රොකට්ටුව මගින් ජලය මත ප්‍රතික්‍රියාව - ජලය මගින් රොකට්ටුව මත යන අදහස පැහැදිලි කිරීමට	02
	(iii)		$P = h \rho g$ $P = 15/100\ m \times 1000\ kg\ m^{-3} \times 10\ m\ s^{-1}$ P = 1500 Pa	01
	(vi)		$P_0 + h \rho g$	01
(B)	(i)		උත්තල කාච	01
	(ii)		4 cm	01

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	(ii)			03
	(iii)		තනි අවතල දර්පණයකට වඩා තල දර්පණ කැබලි යොදා ගත් විට පරාවර්තන කාර්යක්ෂමතාව වැඩි වන අතර බඳුන ඉක්මනින් රත්වේ.	01
(C)	(i)		දෘෂ්‍ය ආලෝකය, අධෝරක්ත කිරණ	01
	(ii)		X කිරණ ඡායාරූප ගැනීම, ගුවන් මගීන්ගේ ගමන් මළු පරීක්ෂා කිරීමට	01
	(iii)		ධ්වනි තරංග ප්‍රචාරණයට අංශුමය මාධ්‍යයක් අවශ්‍ය වන අතර වි.චු. තරංග වලට අවශ්‍ය නොවේ. වාතයේ දී ධ්වනි වේගය 330 m s^{-1} වන අතර වි.චු තරංග වේගය 3 x 10^8 m s^{-1} පමණ වේ. වැනි නිවැරදි සන්සන්දන දෙකක් සඳහා	02
8.				
(A)	(i)		CO2 අවශෝෂණය කිරීම	01
	(ii)	(a)	ජලයේ තැම්බීම, මධ්‍යසාරයේ තැම්බීම, ජලයෙන් සේදීම වැනි	01
		(b)	ජලයේ තැම්බීම - සෛල අජීවී තත්වයට පත් කිරීම. සෛල බිත්ති ලිහිල් කිරීම. ප්ලාස්ම පටලයේ වරණපාරගම්‍යතාව අහිමි කිරීම. **("සෛල/සෛල බිත්ති විනාශ කිරීම" සඳහා ලකුණු නැත.)** මද්‍යසාරයේ තැම්බීම - හරිතප්‍රද ඉවත් කිරීම.	01
	(iii)	(a)	පැය 48ක් අඳුරේ තැබීම.	01
		(b)	ශාක පත්‍ර තුළ පිෂ්ඨය පවතින බව	01
	(iv)		නිවැරදි තුලිත සමීකරණය සඳහා 01 , හරිත්ප්‍රද හා ආලෝක ශක්තිය සඳහා 01	02
	(v)	(a)	<table><tr><td></td><td>R</td><td>R</td></tr><tr><td>r</td><td>Rr</td><td>Rr</td></tr><tr><td>r</td><td>Rr</td><td>Rr</td></tr></table>	02
		(b)	3 : 1	01
(B)	(i)		මිනිත්තු 9	01
	(ii)		උෂ්ණත්වයේ සෙල්සියස් අගයට 273 ක් එකතු කළ විට කෙල්වින් අගය ලැබේ. T = Θ + 273	01
	(iii)		සන්නයනය	01
	(iv)		Q = mcΘ Q = 1 kg x 4200 J kg^{-1} K^{-1} x 10K 42000 J	02
	(v)		Y - ධාරාව එක් දිශාවකට පමණක් ගලා යාමට සැලැස්වීම/ ප්‍රත්‍යාවර්ත ධාරාව සරල ධාරාවක් බවට හැරවීම. C - ධාරාව සුමටනය කිරීම.	02
	(vi)		ජවය = විභව අන්තරය x ධාරාව P = VI = 230 V x 3 A = 690 W	01
	(vii)		E = Pt = 690 W x 10 x 60 s = 414 000 J (E = Vit)	02

				20
9.				
(A)	(i)		හුමාල ආසවනය	01
	(ii)		X - බේරුම් පුනීලය y - ලීබිග් කන්ඩෙන්සරය	02
	(iii)		ද්‍රාවක නිස්සාරණය	01
	(iv)		හුමාල නළයේ කෙලවර මිශ්‍රණය තුළ ගිලී පැවතිය යුතු වුව ද මෙහි දී එය සිදුවී නැත.යන අදහසට	01
	(iv)		සෘජුවම තාපය සැපයීම සිදු කළ හොත් සංඝටක විනාශ වීම හෝ වෙනත් සංයෝග බවට පත්වීමට ඇති අවධානම නිසා.	01
	(vi)	(a)	ඔව්. කුඩා කැබලි වලට කැපීමේදී ඒවායේ පෘෂ්ඨ වර්ගඵලය වැඩිවීම	02
		(b)	උෂ්ණත්වය, සාන්ද්‍රණය, පීඩනය, උත්ප්‍රේරක	02
(B)	(i)		අවකර පරිණාමකයකි	01
	(ii)		විද්‍යුත් චුම්බකත්වය, විද්‍යුත් චුම්බක ප්‍රේරණය	01
	(iii)		Vp/Vs = Np/Ns 240 v/Vs = 400/80 Vs = 48 V	02
	(iv)		නැත.	01
	(v)		V = IR V = 0.1 A x 120 Ω V = 12 V	02
	(vi)		360 Ω	02
	(vii)			01
				20

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