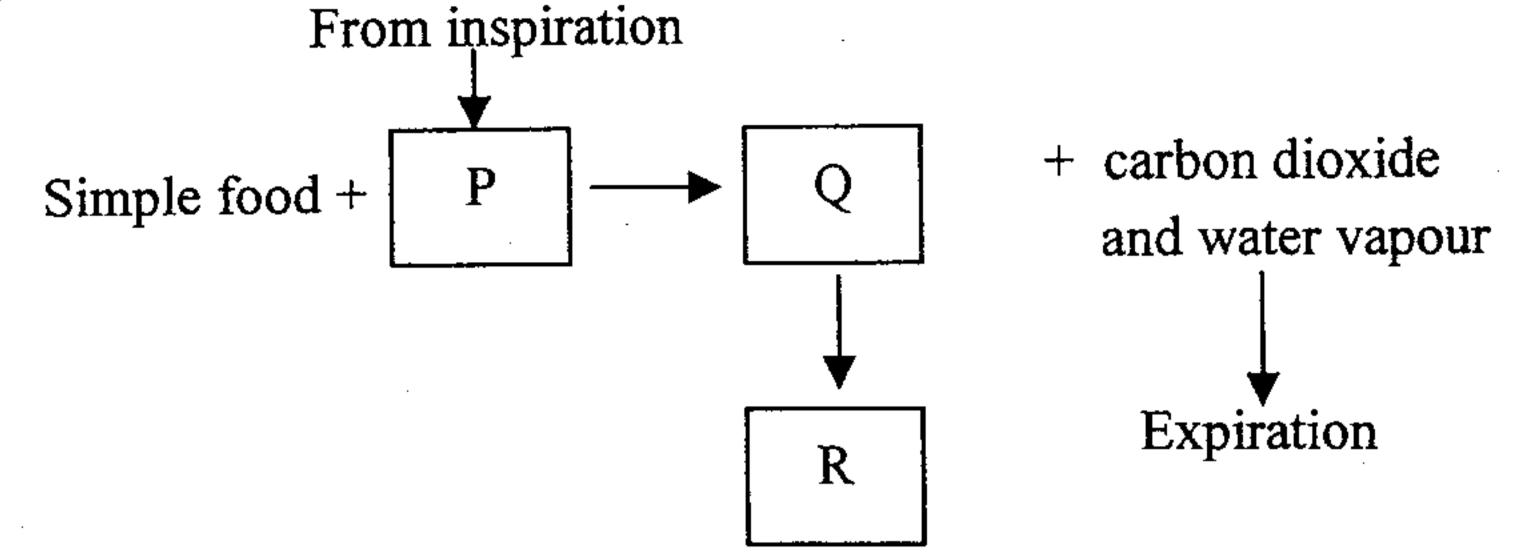
And & State Contained Was requirementally and I All Rights Reserved] ඩස්කරීර පළාත් අධ්යාපත දෙපාර්තමේන්තුව - කොළඹ අධ්යාපත කලාපය ලිස GOOD UPTERFORMS BEDGES SECURISES OND - GERROUDLES CONSTILLED Western Provincial Education Department - C dombo Educational Zone **අදවන වාර ඇගයිම - 2016** MESON IND SEDENMENT SULTS - 2016 Second Term Evaluation - 2016 විද්යාව cra ecaa Two Hours Science Index No. Part I Answer all questions . Select the correct answer and underline it. A substance that converts blue litmus into red is, (1) water (2) vinegar (3) lime water (4) surgical spirit (2) 'A patch was formed when a piece of soap is kept on an aluminium lid. Reason for this, since soap is an acidic substance it reacted with aluminium since soap is a salt it reacted with aluminium. (3) since soap is a basic substance it reacted with aluminium. (4) since soap is an indicator it reacted with aluminium. Advantage of the stream-lined body shape to the fish is, easy to balance the body weight. (2) easy to go up in water easy to catch the prey (4) easy to move/swim in water. Animals show variuos adaptations for their safety. An animal showing the same colours and patterns of plant leaves is, (1) caterpillar (2) butterfly (3) leaf insect (4) stickinsect. (5)Out of the above animals, group of invertebrate animals is, (1) caterpillar, worm, snail (2) gecko, fish, frog fish, warm, butterfly (4) snail, worm, gecko Motion of an object by a push or a pull is, doing a work (2) utilizing energy (3) applying a force (4) all of the above An incident related with kinetic energy is, . (1) a stretched bow (2) blowing wind (3) water stored in a reservoir (4) water in the top of a water fall "Joule" (J) is used to measure, (1) pressure (2) power (3) energy (4) force Energy needed for the artifical satellites is received by, (1) petrol (2) electric generators (3) solar panels (4) dry cells

(1)

(10) Energy needed to evaporate	e sea water in the salt indus	try is,		
(1) kinetic energy	(2) potential energy	(3) heat energy	(4) chemical energy	
(11) What will happen when a n	arrow, parallel beam of lig		rror?	
(1) light is diverged		(2) light is converged		
(3) light travells parallely		(4) light forms a white colour patch		
(12) Correct statement regardin	g the body temperature of	the cold-blooded animals is,		
(1) body temperature incre				
(2) body temperature is no	ot changed when the environ	nmental temperature change	S.	
(3) body temperature incre	eases when the environmen	ital temperature decreases.	•	
(4) body temperature decr	eases when the environmen	ntal temperature increases.		
(13) Energy transformation of a	an electric bulb is,		-	
(1) kinetic energy ——		(2) electriç energy ——	→ kinetic energy	
(3) electric energy		(4) light energy ——	electric energy	
•••				
(14) A balloon fixed to an emp	oty bottle, when kept in hot	water, was inflated.		
Reason for this.	· •		balloon	
(1) volume of air in the bo				
(2) volume of the contain		0.0000	empty bottle	
(3) shape of the bottle cha		ated by the heat energy.		
(4) shape of hot water cha	inged by the heat energy.	iducation e	hot water	
(15) Energy transformation in a	winding clock,	ල ල ල ල ල ල ල ල ල ල ල ල ල ල ල ල ල ල ල		
(1) electrical energy—		(2) potential energy	kinetic energy	
(3) kinetic energy ——		(4) kinetic energy ——	potential energy	
	The Nath			
(16) Elements found in the eart	h's core are,			
(1) nickel and silicon		(2) nickel and aluminium		
(3) molten iron and nickle		(4) moltern iron and silico	n	
(17) Instrument used to measur	e time using the length of t	the shadow as an arbitary uni	t is,	
(1) sun dial	(2) pendulum clock		(4) water clock.	
(18) Multiple images are form	ed when two or more plan	e mirroros are kept at angle	. When the angle between	
two mirrors decreases, the	number of images,			
(1) decreases	(2) increases	(3) becomes equal	(4) becomes zero	
(19) Instrument used to magni	fy small objects which are	visible to the naked eve in th	e laboratory is.	
. (1) compound microscope		(3) electron microscope	(4) convex mirror	
••	(2) Shipic inforoscope	(5) Clock of inforcing		
(20) Correct statement about "	'vibration'' is.			
(i) sound is produced by t		•	•	
	that produces sound by the	e vibration of membranes.		
	all the types of vibration i			
_	en sound production and vil			

 $(20 \times 2 = 40 \text{ marks})$

(v) Following chat explains the utilization of digested food for respiration of living organisms.



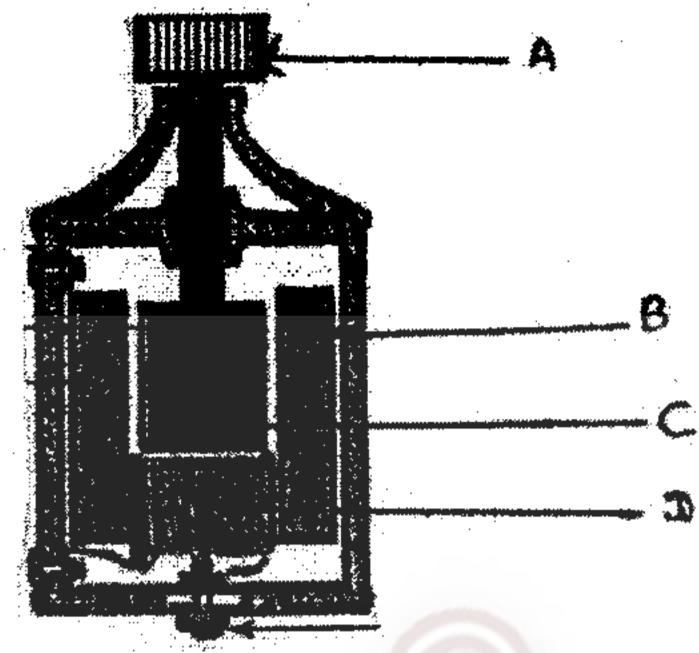
Name P,Q and R respectively.

(3 marks)

(vi) What is the common chamber for both respiratory and digestive system?

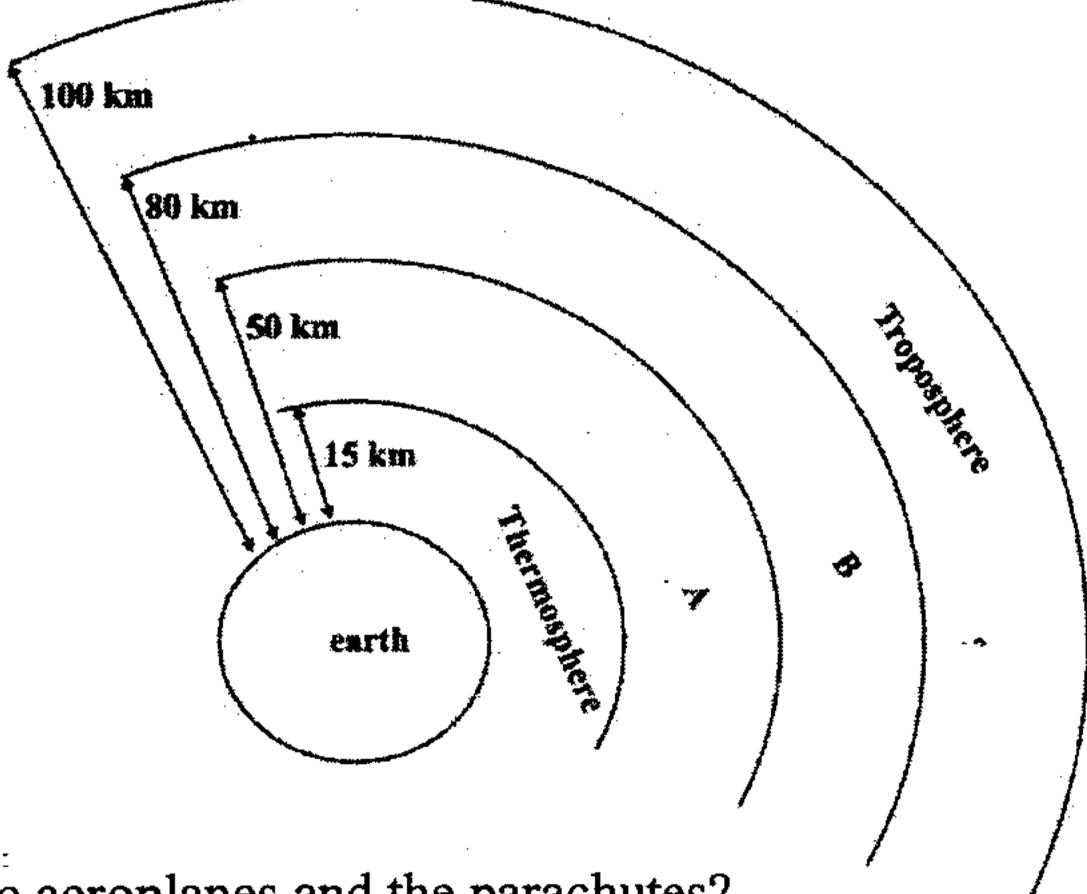
(1 mark)

(4) Electricity is a type of energy. Following diagram illustrates one method of generating electricity out of several methods used in day-to-day life.



(A) (i) What is the instrument given in the above diagram? mark) (ii) Mention the method used in this to generate electricity. mark) (iii) Name A, B, C and D parts of the above instrument. marks) (iv) Write down the energy conversion taking place in it. mark) (v) Mention one method to increase the amount of current generated by this instrument. mark) (B) Simple cell is the first chemical cell designed to generate electricity. (i) Name the acid contained in the simple cell. mark) (ii) Name the positive and the negative terminals of it in order. (2 marks) (2 marks) (iii) Write two weaknesses in the simple cell.

(5) (A) Following diagram illustrates the different layers of the atmosphere when go up in the air.



(i) Which layer is used by the aeroplanes and the parachutes? / (1 mark)
(ii) Name A and B layers. (2 marks)
(iii) In which layer the ozone layer is present? (1 mark)
(iv) What layer is used to hold the International Space Station? (1 mark)
(v) Name the layer having the lowest temperature (1 mark)

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(B) (i) Composition of the troposphere is given in the table below. Fill in the blanks of it.

•	Type of the gas	Volume percentage	
(1)		78%	
(2)	Oxygen		

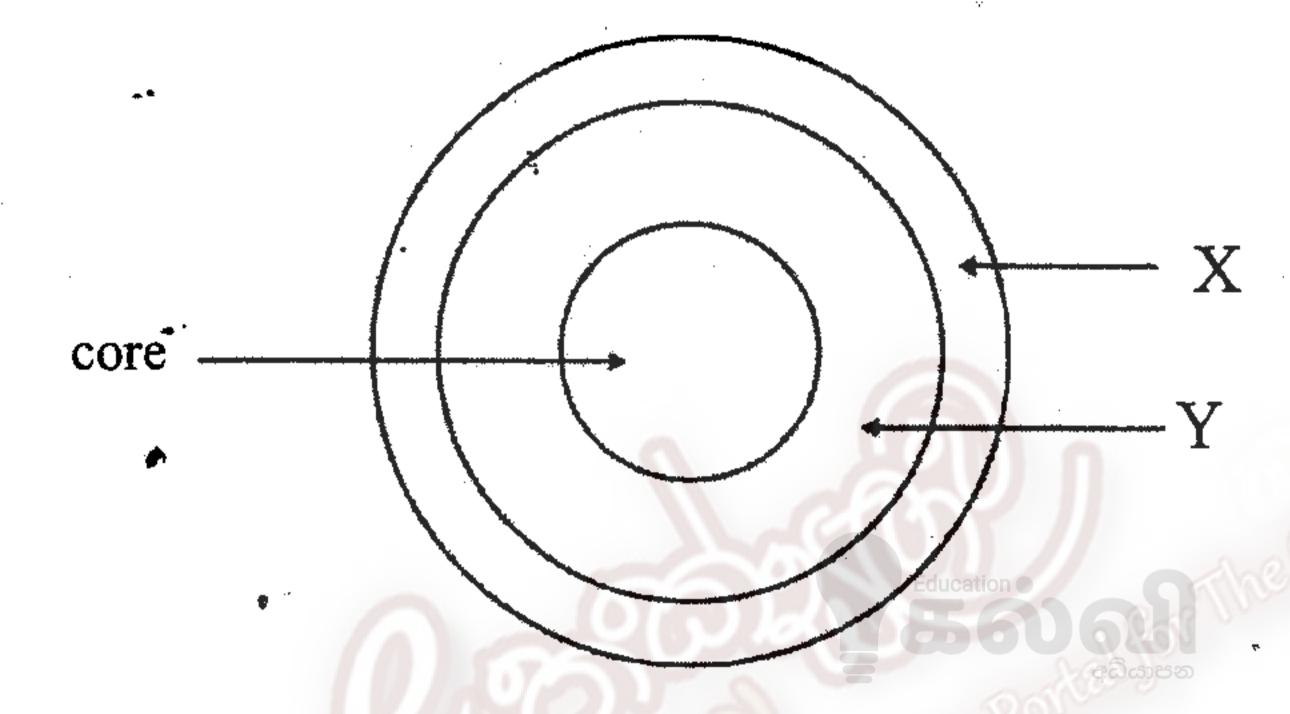
(2 marks)

(ii) Argon is one of the gases in the troposphere. Write one use of that gas.

- mark)
- (iii) Atmospheric pollution takes place due to collection of pollutants. Name two "solid pollutants" that pollute the atmosphere.
- (2 marks)
- Earth is the only planet with life in our solar system. There are number of reasons for the **(6)** existence of life on it.
 - (i) Mention one reason for the existence of life on the earth.

mark)

(ii) Following diagram illustrates the inner nature of the earth.



(a) Name X and Y parts of the earth

(2 marks)

Write down a method used by geologists to obtain information about the inner part of the earth.

mark)

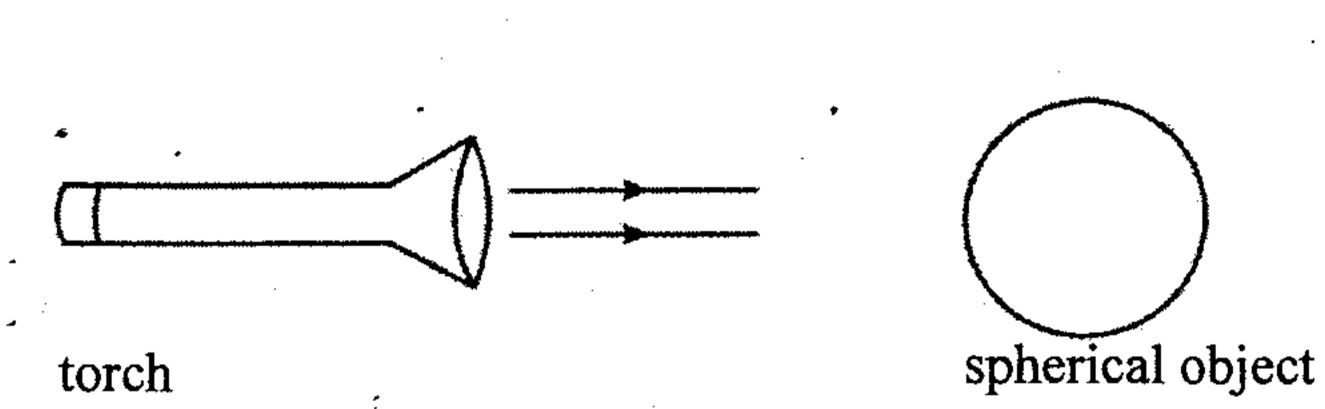
Name two (02) solid substances found in part X.

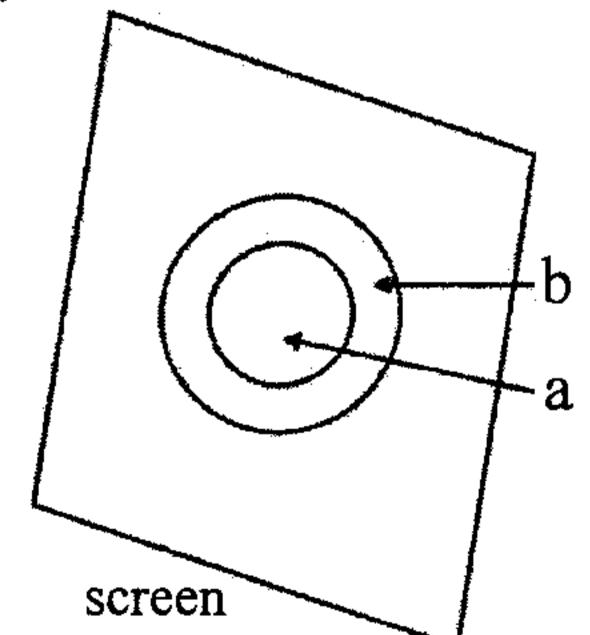
(2 marks)

(iii) What is the reason for the existence of substances in the inner core as solids?

mark)

(iv) Following diagram illustrates forming a shadow of a spherical object by a torch on a screen.





Write a characteristic possessed by the spherical object to form the shadow as in the above way.

(1 mark)

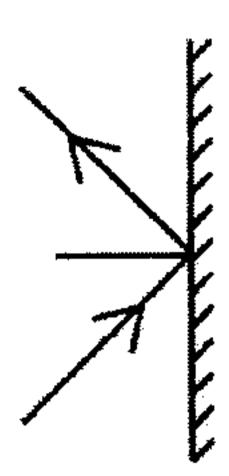
What is the change in part b in the shadow, when the torch is moved away from the spherical object?

mark)

Convex mirrors are used as the side mirror of vehicles. The word "AMBULANCE" is written opposite in them. Explain the reason for this.

(2 marks)

- (2) Dressing table mirror is a smooth shiny surface. In science it is called a plane mirror.
 - (A) Following diagram illustrates the reflection of light by a plane mirror.

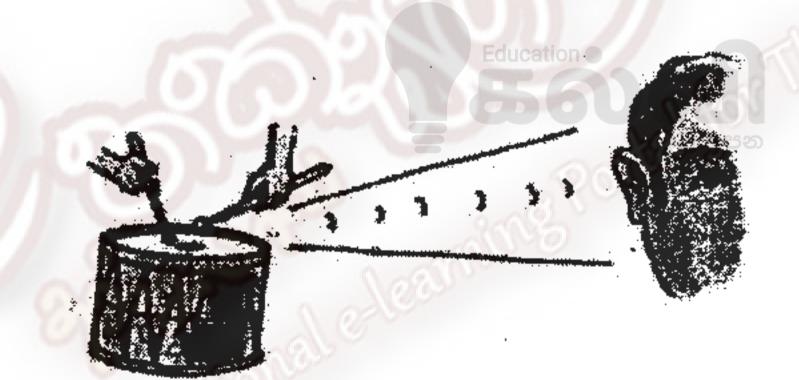


C. drum made out of bamboo stem

(i) What do you mean by the reflection of light?	(1 mark)
(ii) Write down two factors needed for the vision?	(1 mark)
(iii) Draw a divergent beam of light	(1 mark)
(iv) Write two instances where concave mirrors are used in our day-to-day life.	(2 marks)
(B) (i) Sound is produced by the vibration of an object. What structures in the hun vibrate to produce the voice?(ii) What is vibrated in each of the following instrument to produce the sound?	(1 mark)
A. Flute	(1 mark)
B. horn made out of coconut leaves	(1 mark)

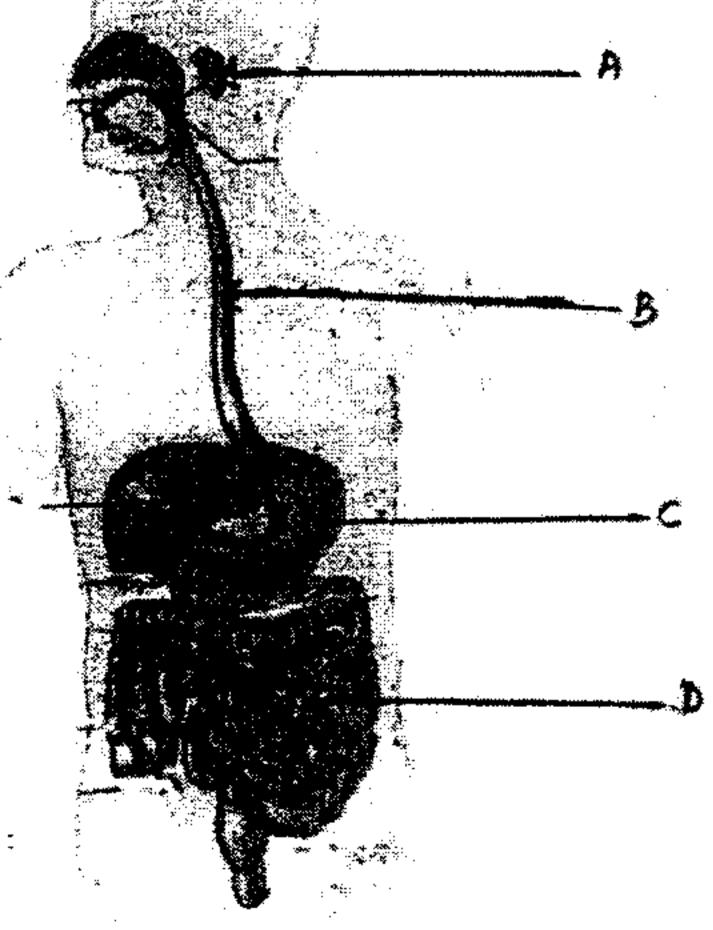
• Following diagram illustrates the propagation of sound between the source of sound and the ear

mark)



- (iii) What is needed for the propagation of sound from one place to another place? (1 mark)

 (iv) Out of the solids, liquids and gaseous mediums, which has the highest speed of sound? (1 mark)
- (3) A group of grade 7 students designed a model of the human respiratory system. Following diagram illustrates it. Use it to find the answers for the questions given.



- (i) Write two main functions of the human digestive system.
 (ii) Digestion of food starts in the mouth. Write a change takes place in food in the mouth.
 (1 mark)
 (iii) Name A, B and C parts in the diagram.
- (iv) Write the main function of D (1 mark)

Part II

- Answer the first question and four other questions.16 marks are allocated for the first question and 11 marks for each of the others.
- (1) Grade 7 students were divided into 4 groups as A, B, C and D for an assessment. 100 small pieces of ekles were coloured by red, green, white, brown and divided equally among the groups. Each group got 25 pieces, in one colour. All these 100 pieces of ekles were mixed in a box and spreaded in a lawn with grasses randomly. 4 students were appointed to pick up the respective coloured ekles in one minute.

 Use the above activity to find the answers for the questions below.

(A) (i) What colour ekles were picked up least within one minute, out of the four groups in A, B, C and D?

(ii) What is the reason for the least picking up of that coloured ekles?

(iii) What colour ekles were picked up highest within that time period?

(iv) What is the reason for the highest picking up of that coloured ekles?

(1 mark)

(2 mark)

(3 mark)

(4 mark)

(6 mark)

(7 mark)

(8 mark)

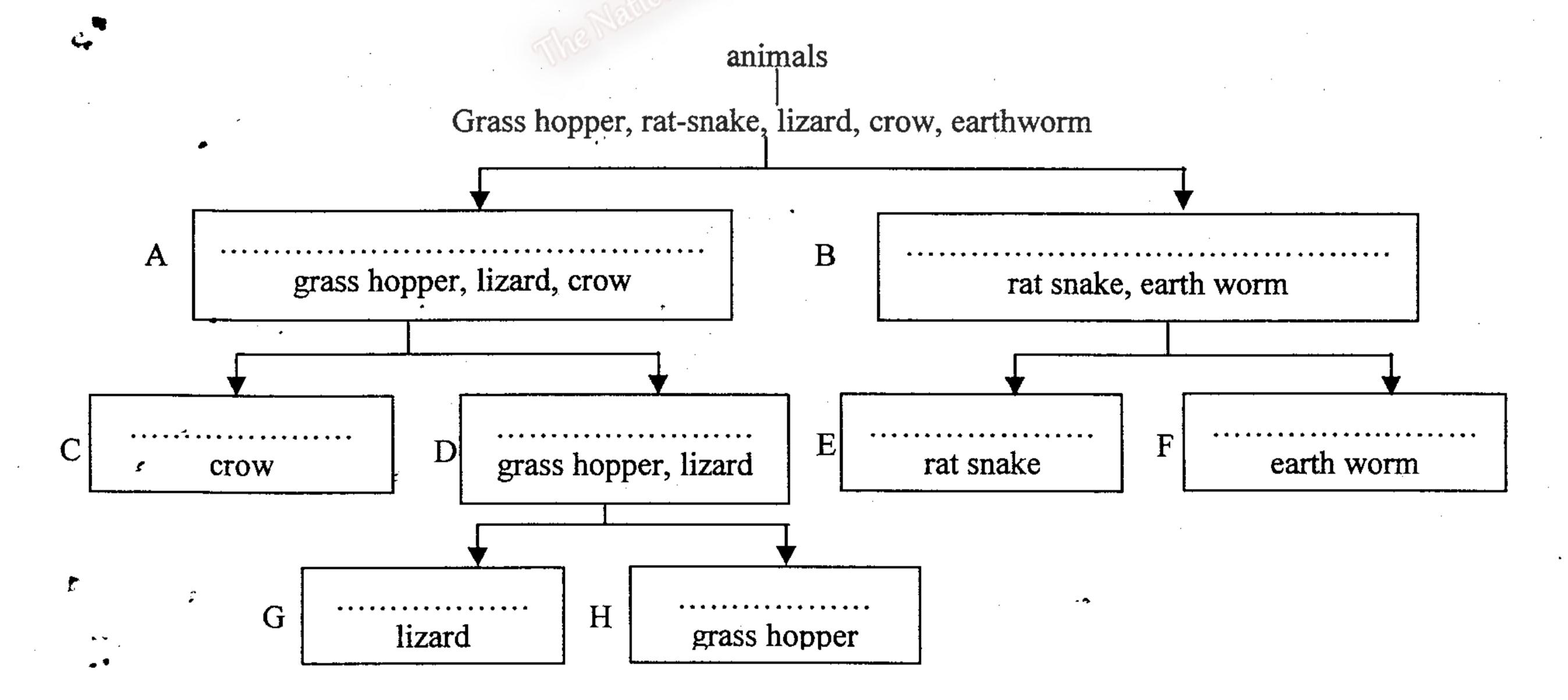
(9 When all these ekles were spreaded on a gravel floor, what colour ekles were picked up

(B) After the end of this activity one child in group C told to the teacher that there is a grass-hopper hidden among grasses. But it was difficult to find it.

According to the above description,

last?

- (i) Why was it difficult to find the place of the grass hopper? (1 mark)
- (ii) What is it called the difficulty to identify the animals separately from their environment? (1 mark)
- (iii) Write two advantages of this type of adaptations to the animal. (2 marks)
- (iv) Name two animals which are well adapted to the colour of the environment, <u>except</u> the grass-hopper. (2 marks)
- (v) Mention whether the grass hopper is a vertebrate or an invertebrate animal. (1 mark)
- (vi) Complete the following dichotomous key writing the correct feature of animals.



 $(\frac{1}{2} \times 8 = 4 \text{ marks})$

mark)

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	• •	is the energy given whe			(1 mark)
	(ii) Write down the energy conversion in the above instance. (burning L.P gas)				
•	(iii) Name two solid fuels which contain chemical energy.				
	(iv) Write	the type of energy store	d in each of the following.		
	(a) A fruit in a tree				
	(b) I	n petrol			(1 mark) (1 mark)
	(v) Comp	lete the following table.	•		(
		Equipment	form of energy given to the equipment	other forms of energy generated by it	
		3			
	(1)	immersion heater	(a)	(b)	(2 marks)
			electric		

(2 marks)

(vi) Write two uses of sound energy in our day-to-day life activities.

I திறைத்து பாடங்களும் ஒரே கல்வி நிறுவனத்தின் கீழ்....

திறமை வாய்ந்த ஆசிரியர்களினூடான சிறந்த வழிகாட்டலுடன் கூடிய வினைத்திறன் மிக்க நிகழ்நிலை வகுப்புகள்.



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- Sinhala Reading and Writing Classes.
- Map Marking Classes

தினமும் வகுப்பு RECORDING வழங்கப்படும்.

Whatsapp ஊடாக எம்மை தொடர்பு கொண்டு வகுப்புகள் தொடர்பான மேலதிக விபரங்களை அறிந்து கொள்ள முடியும். (தனிப்பாட அனுமதிகளையும் பெற்றுக்கொள்ள முடியும்)





எங்கள் குறிக்கோள்

எண்ணிம் உலகத்தில் மாணவர்களிற்கென சிறந்ததொரு கற்றல் கட்டமைப்பை உருவாக்குதல்.

அனைத்தும் டிஜிட்டல் மயப்படுத்தப்பட்ட இந்த காலத்தில் பல்வேறு துறைகளும் கால ஓட்டத்துடன் இணைந்து டிஜிட்டல் தளத்தில் பல்கிப்பெருகி வருகின்றன. அந்த வகையில் கல்வித்துறையும் இதற்கு விதிவிலக்கல்ல. இணையவழி கல்வியின் மூலம் கலவித்துறை புதியதொரு பரிமாணத்தை எட்டியுள்ளது. குறிப்பாக கொரோனா பேரிடர் காலத்தில் நாடே முடக்கப்பட்டிருந்தது. இதனால் மாணவர்களிற்கும் பாடசாலை, கல்வி நிறுவனங்களிற்கு இடையிலான தொடர்பு துண்டிக்கப்பட்டது. அந்த இக்கட்டான சூழ்நிலையில் இணையவழி வகுப்புகள் மாணவர்களிற்கு வரப்பிரசாதமாக அமைந்தது என்பதே உண்மை.

இன்று தொழில்நுட்பம் மாணவர்களை தவறான பாதைக்கு இட்டு செல்வதாக ஓர் எண்ண ஓட்டம் மக்கள் மத்தியில் உள்ளது. தொழில்நுட்பம் என்பது ஒரு கருவி மட்டுமே அதை எவ்வாறு பயன்படுத்துகிறோம் என்பதில் அதன் ஆக்க மற்றும் அழிவு விளைவுகள் தீர்மானிக்கப்படுகிறது. உளியை கொண்டு சிலையை செதுக்க நினைத்தால் அவன் நிச்சயம் சிற்பி ஆகலாம். இங்கு பிரச்சினையாக காணப்படுவது மாணவர்களை வழிப்படுத்த தொழில்நுட்ப உலகில் ஓர் முறையான கட்டமைப்பு இல்லாமையே. அதை உருவாக்குவதே எங்கள் நோக்கம். அதை நோக்கியே எங்கள் பயணம் அமையும்.

எமது இணையத்தினூடக ஊடாக உங்களிற்கு தேவையான பரீட்சை வினாத்தாள்களை இலகுவான முறையில் தரவிறக்கம் செய்து கொள்ளமுடியும்.

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கல்வி சார் செய்திகளை உடனுக்குடன் அறிந்து கொள்ள எமது சமூக ஊடக தளங்களின் ஊடாக உடனுக்குடன் அறிந்து கொள்ள முடியும்.





