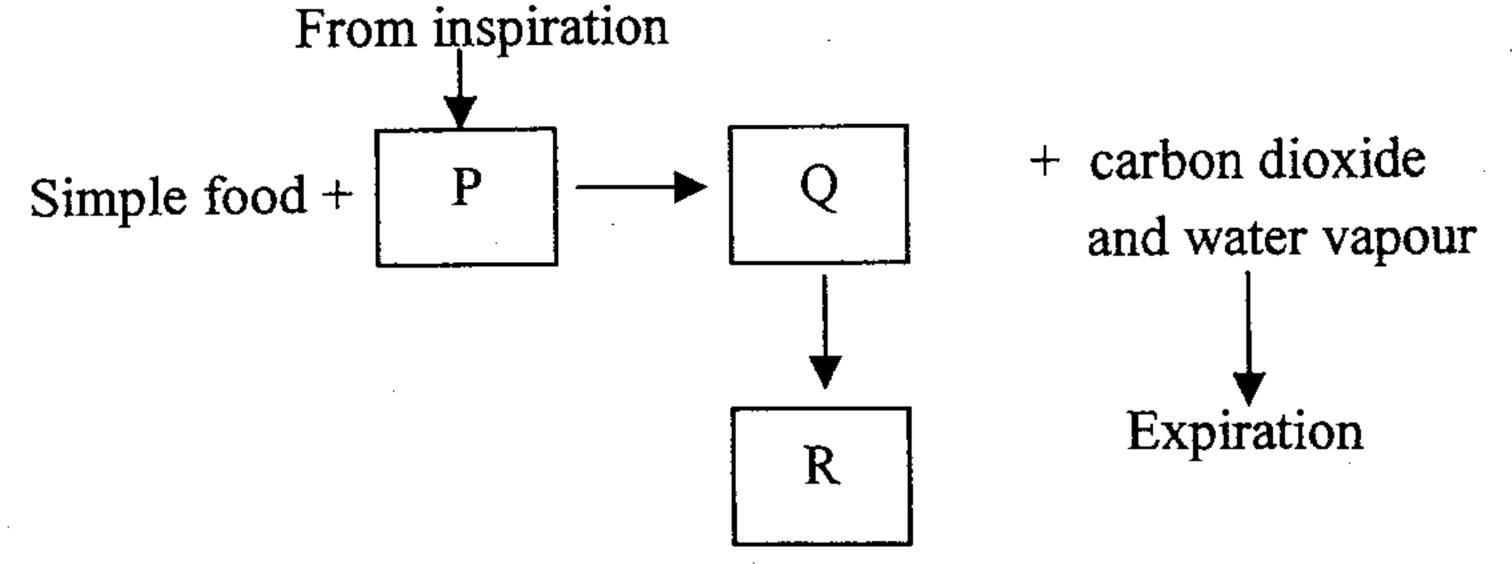
And & State Contained Was requirementally and I All Rights Reserved] ඩස්කරීර පළාත් අධ්යාපත දෙපාර්තමේන්තුව - කොළඹ අධ්යාපත කලාපය ලිස GOOD UPTERFORMS BEDGES SECURISES OND - GERROUDLES CONSTILLED Western Provincial Education Department - C dombo Educational Zone **අදවන වාර ඇගයිම - 2016** MESON IND SEDENMENT 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

(10) Energy needed to evapora	te sea water in the salt indu	stry is,	
(1) kinetic energy	(2) potential energy	(3) heat energy	(4) chemical energy
(11) What will happen when a	narrow, parallel beam of lig		rror?
(1) light is diverged		(2) light is converged	
(3) light travells parallely		(4) light forms a white co	lour patch
(12) Correct statement regards	ing the body temperature of	the cold-blooded animals is,	
(1) body temperature inc	reases when the environme	ntal temperature increases.	
(2) body temperature is <u>r</u>	not changed when the envir	onmental temperature change	S.
(3) body temperature inc	reases when the environme	ntal temperature decreases.	· • • •
(4) body temperature dec	creases when the environme	ental temperature increases.	
(13) Energy transformation of	f 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 en	ipty bottle, when kept in ho	t water, was inflated.	
Reason for this.	· •		balloon
	oottle increased by the heat		
	ner with hot water increased	(V/A) (S) (A) (A)	empty bottle
	nanged and balloon was infl	lated by the heat energy.	
(4) shape of hot water cl	nanged by the heat energy.	ducation 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	hot water
(15) Energy transformation in	a winding clock,	අධ්යාපන .	
(1) electrical energy—		(2) potential energy	kinetic energy
(3) kinetic energy —		(4) kinetic energy —	potential energy
	The Nath		
(16) Elements found in the ea	rth's core are,		
(1) nickel and silicon		(2) nickel and aluminium	
(3) molten iron and nickl	e	(4) moltern iron and silico	n
(17) Instrument used to measu	are time using the length of	the shadow as an arbitary uni	t is,
(1) sun dial	(2) dustrum11-		(4) water clock.
	· · · · · · · · · · · · · · · · · · ·		
(18) Multiple images are form	ned when two or more pla	ne mirroros are kept at angle	. When the angle between
two mirrors decreases, th	e number of images,		
(1) decreases	(2) increases	(3) becomes equal	(4) becomes zero
(#9) Instrument used to mage	nify small objects which are	visible to the naked eye in th	e laboratory is.
(1) compound microscop		• • •	(4) convex mirror
••	(2) Shapic inforoscope	(5) Clock of microscope	() () ()
(20) Correct statement about	"vibration" is.		
	the vibrations of objects.	•	•
	nt that produces sound by the	ne vibration of membranes.	
• -	fy all the types of vibration		
	en sound production and v		

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

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



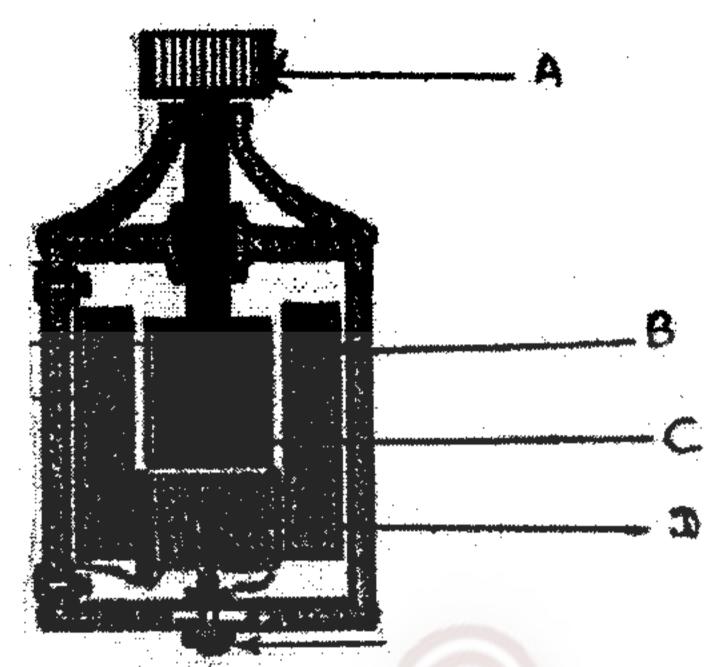
Name P,Q and R respectively.

(3 marks)

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

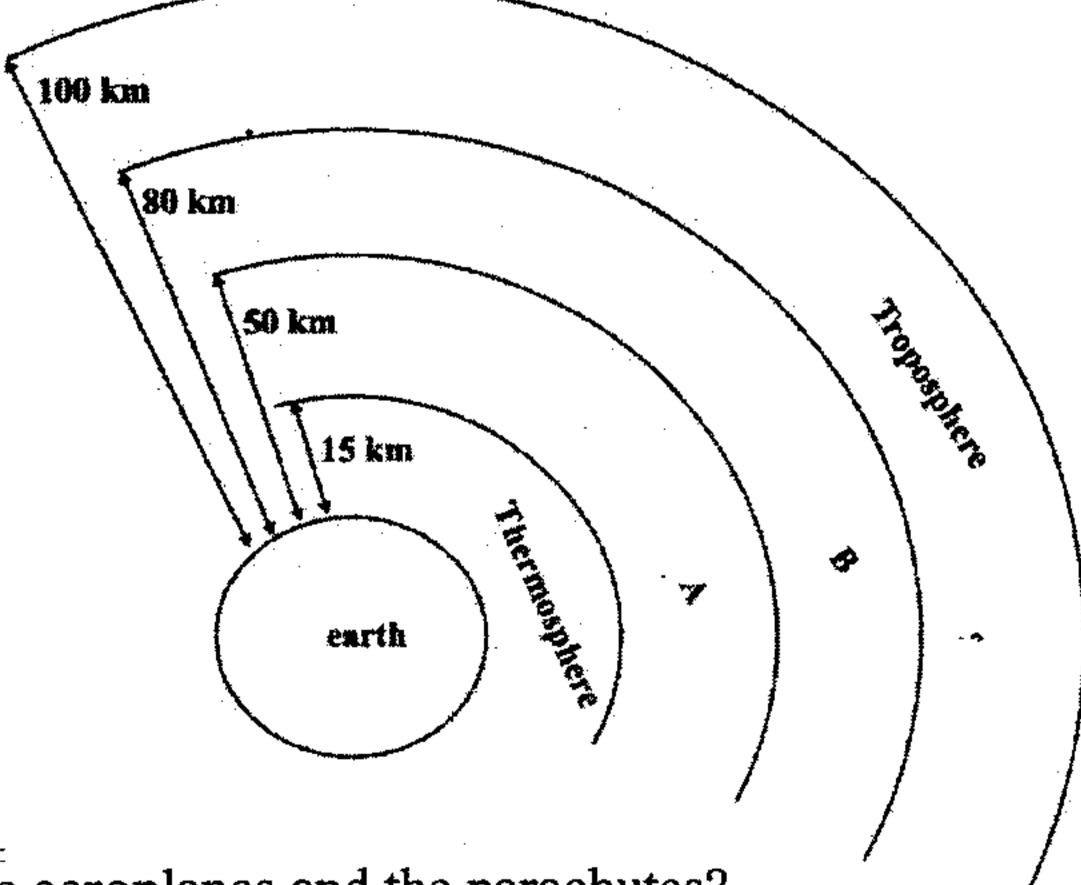
(1 mark)

(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.

(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	

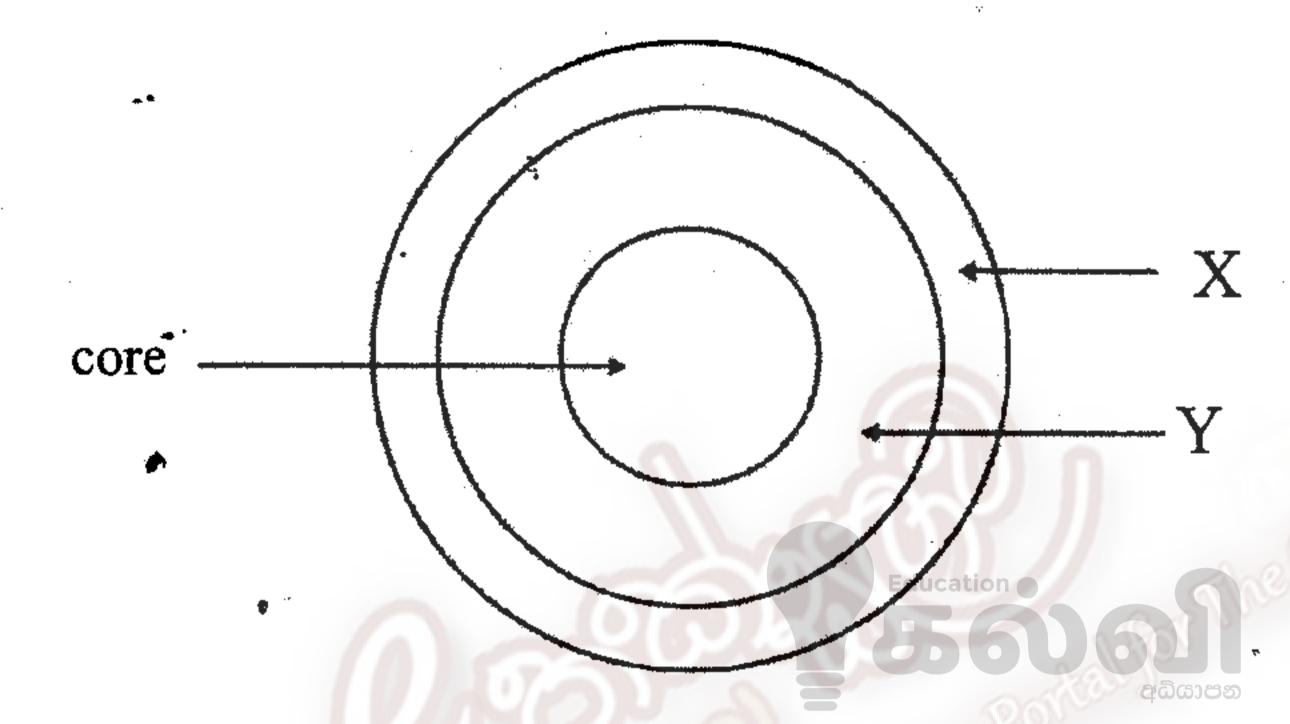
(2 marks)

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

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

(1 mark)

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



(a) Name X and Y parts of the earth

(2 marks)

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

1 mark)

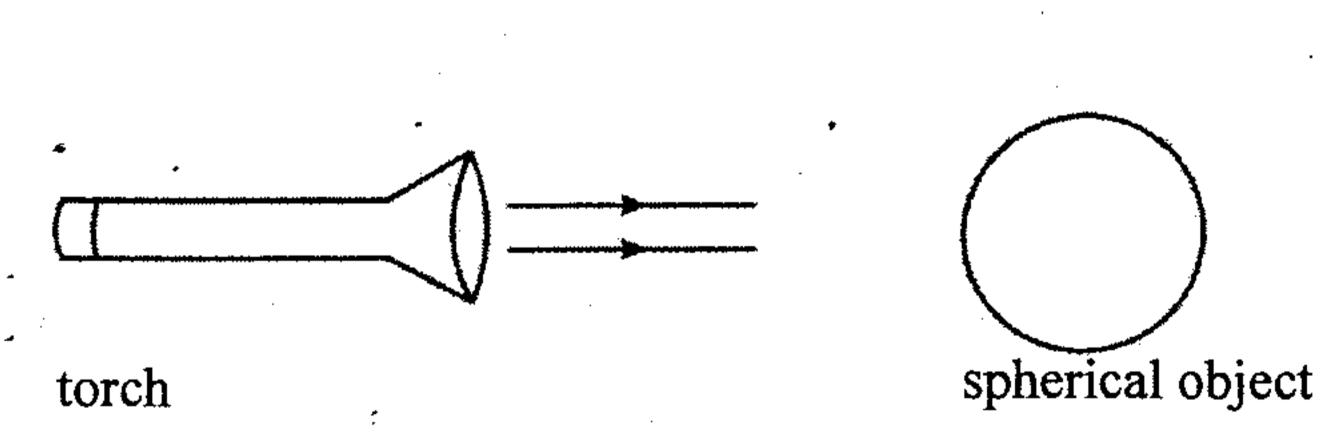
(c) Name two (02) solid substances found in part X.

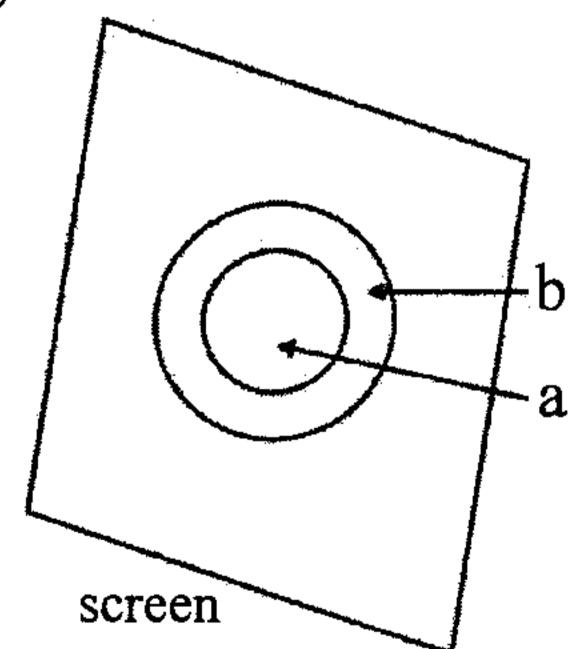
(2 marks)

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

(1 mark)

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





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

(1 mark)

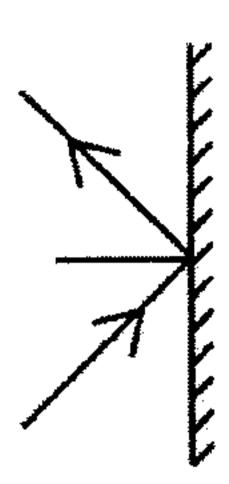
(b) What is the change in part b in the shadow, when the torch is moved <u>away</u> from the spherical object?

(1 mark)

(v) 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.



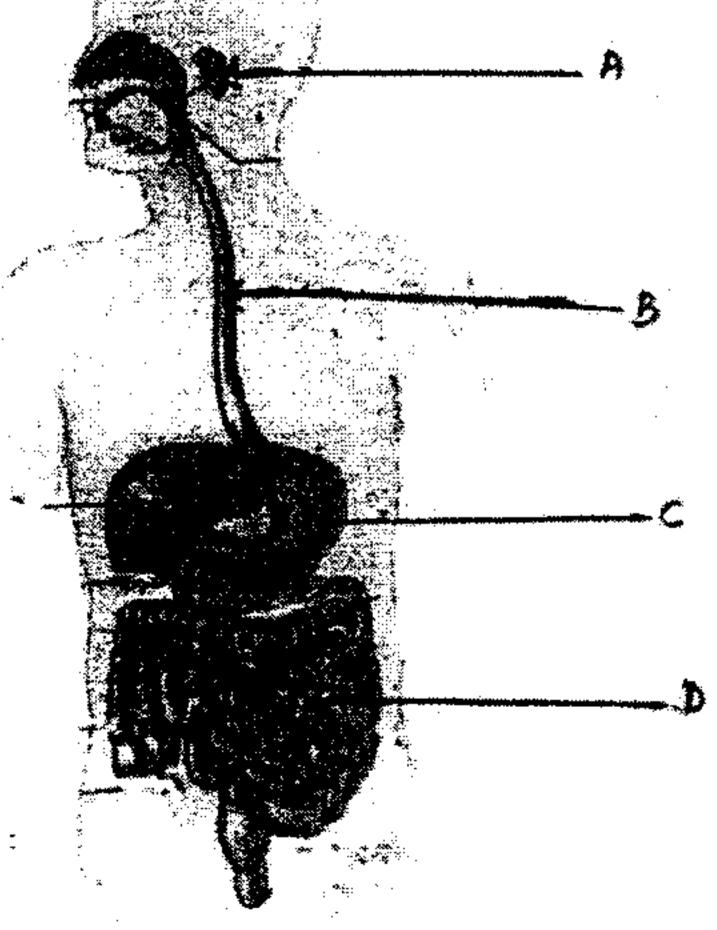
C. drum made out of bamboo stem

(i)	What do you mean by the reflection of light?			mark)
(ii)	Write down two factors needed for the vision	1?	(1	mark)
(iii)	Draw a divergent beam of light		(1	mark)
(iv)	Write two instances where concave mirrors a	re used in our day-to-day life.	(2	marks)
(B) (i) .(ii)	Sound is produced by the vibration of an objection vibrate to produce the voice? What is vibrated in each of the following instead		(1	mark)
i.	A. Flute	0 000000	(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



- (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.
 (3 marks)
 (iv) Write the main function of D

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.

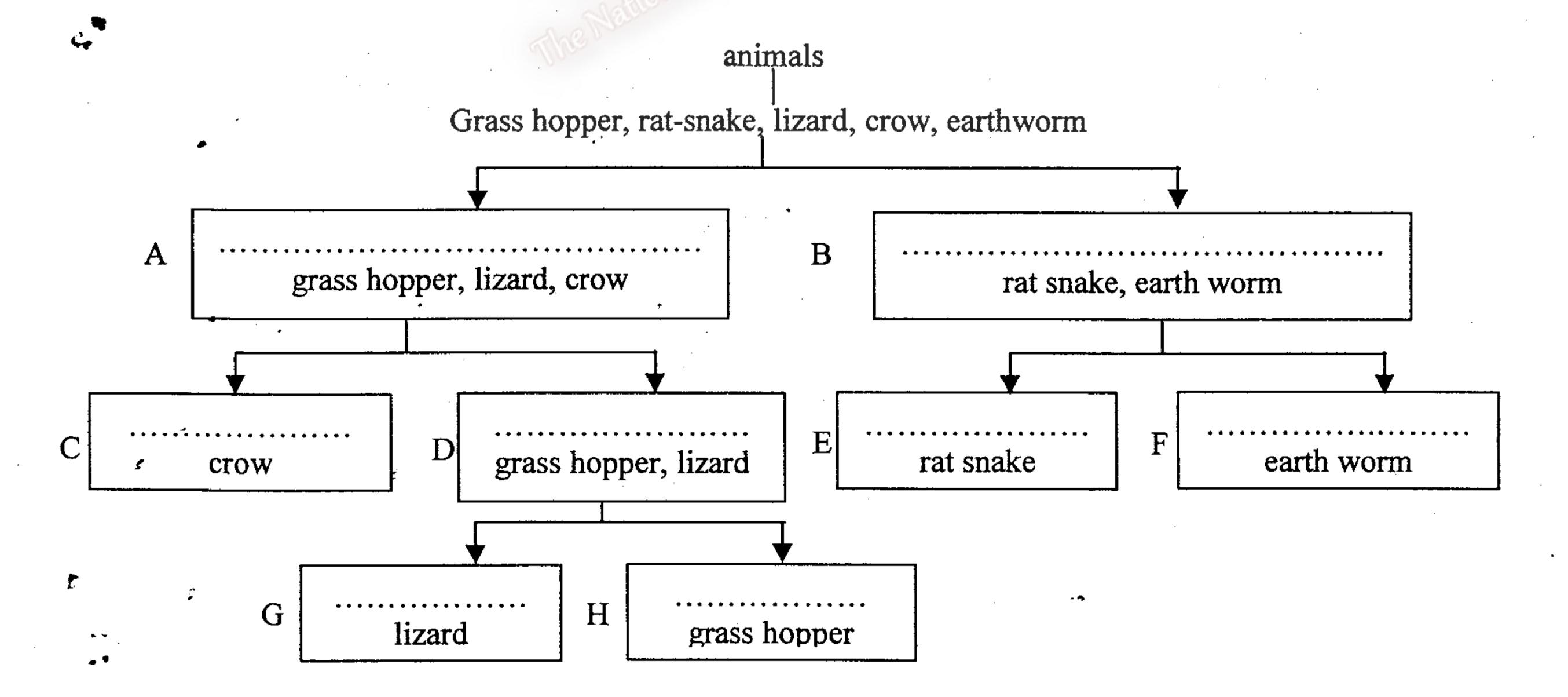
 Use the above activity to find the answers for the questions below.

(A) (i)	What colour ekles were picked up least within one minute, out of the four groups in A, B, C		
	and D?	(1	mark)
(ii)	What is the reason for the least picking up of that coloured ekles?	(1	mark)
(iii)	What colour ekles were picked up highest within that time period?	(1	mark)
(iv)	What is the reason for the highest picking up of that coloured ekles?	(1	mark)
• (v)	When all these ekles were spreaded on a gravel floor, what colour ekles were picked up		
	last?	(1	mark)

(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,

- (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.



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

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(7)	Chemicals c	Chemicals can exist as solids liquids or gases. Most of the chemicals contain a large amount of energy.			
	(i) What is the energy given when L.P gas is burnt?				(1 mark)
	(ii) Write down the energy conversion in the above instance. (burning L.P gas)			(1 mark)	
•	• (iii) Name two solid fuels which contain chemical energy.				(2 marks)
	(iv) Write	the type of energy store	d in each of the following.		
	(a) A fruit in a tree				(1 mark)
	(b) I	n petrol			
	(v) Complete the following table.				(1 mark)
			•		
		Equipment	form of energy given to the equipment	other forms of energy generated by it	
		3	· · · · · · · · · · · · · · · · · · ·		
	(1)	immersion heater	(a)	(b)	. (2 marks)
	(2)	radio	electric	(c)	. (1 mark)

(vi) Write two uses of sound energy in our day-to-day life activities. (2 marks)

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