

SA2

**ANGLO-CHINESE SCHOOL (JUNIOR)
SEMESTRAL ASSESSMENT 2 (2005)**

**PRIMARY 3
SCIENCE**

BOOKLET A

NAME : _____ () **CLASS** : P3. _____

DATE : 27th October 2005

Total Time For Booklets A and B : 1 hour and 30 minutes

INSTRUCTIONS TO CANDIDATES

Do not open this booklet until you are told to do so.

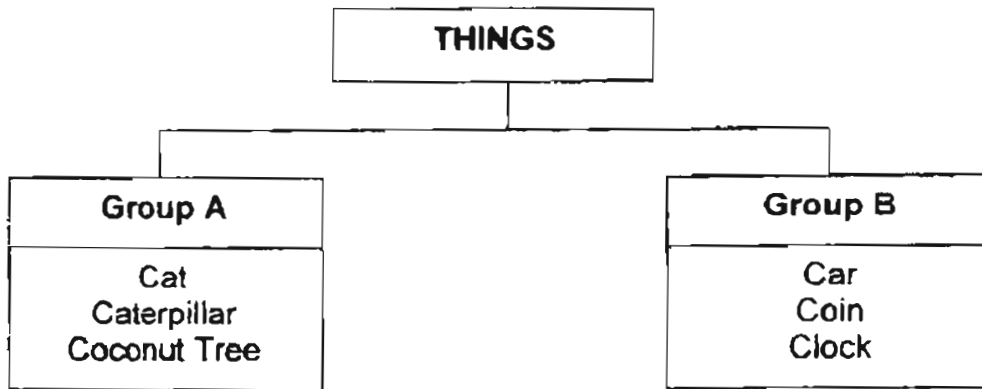
Follow all instructions carefully.

Answer all questions.

Section A (40 marks)

For each question from 1 to 20, four options are given. One of them is the correct answer. Choose the correct option (1, 2, 3 or 4) and shade the correct oval on the Optical Answer Sheet (OAS).



1 Study the 2 groups of things below.



Which one of the following can be placed in Group B?

- (1) Cow
- (2) Cake
- (3) Camel
- (4) Cockroach

2 Which of the following comparisons between the plant and the cup is correct?

Plant	Cup
	
(1) It cannot grow.	It can grow.
(2) It gives birth to young.	It lays eggs.
(3) It takes in oxygen.	It takes in carbon dioxide.
(4) It can respond to changes.	It cannot respond to changes.

- 3 The diagram shows an axe which is used for chopping down trees. This axe is made of _____.



- (1) wood and clay
 - (2) wood and metal
 - (3) plastic and glass
 - (4) plastic and rubber
- 4 Four boys recorded their height in 2003 and 2005 in the table below.

Names	Height (cm)	
	Year 2003	Year 2005
Aaron	120	129
Brandon	125	122
Clement	123	131
Damien	129	138

One of the boys made a mistake while recording his height. Who is he?

- (1) Aaron
- (2) Brandon
- (3) Clement
- (4) Damien

5 Jacky did a study on two animals, X and Y. He drew a checklist and placed a tick (✓) in the box when he made the observation.

The completed checklist is shown below.

Observation	Animal X	Animal Y
It has six legs	✓	✓
The young lives in water.	✓	
There are 3 stages in the life cycle.		✓

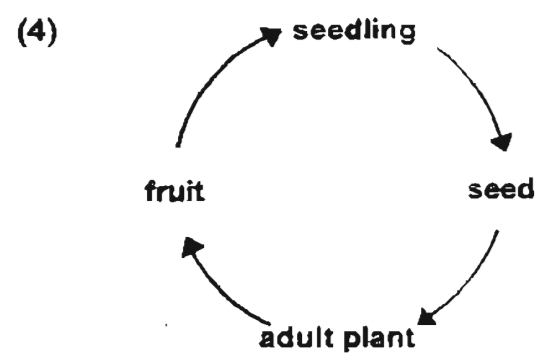
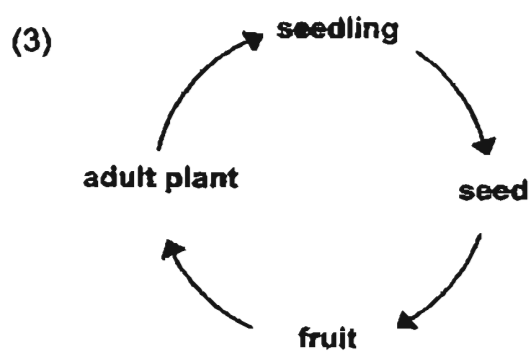
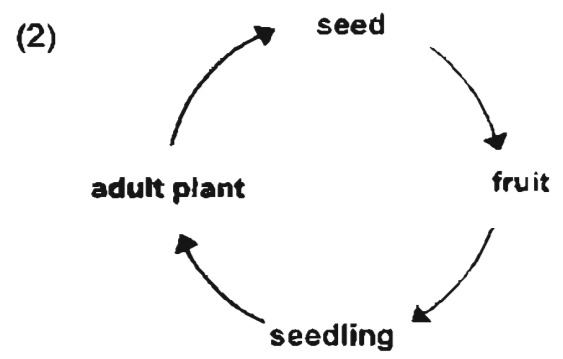
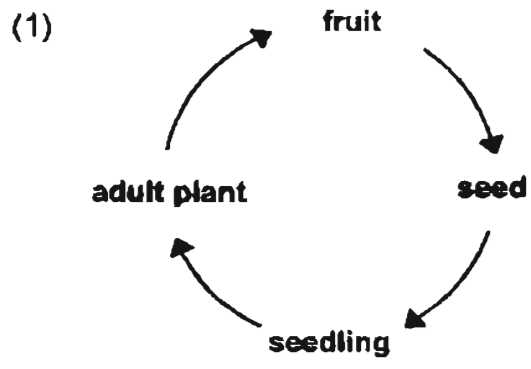
Which of the following animals could be Animal X and Animal Y?

	Animal X	Animal Y
(1)	butterfly	frog
(2)	frog	cockroach
(3)	mosquito	butterfly
(4)	mosquito	cockroach

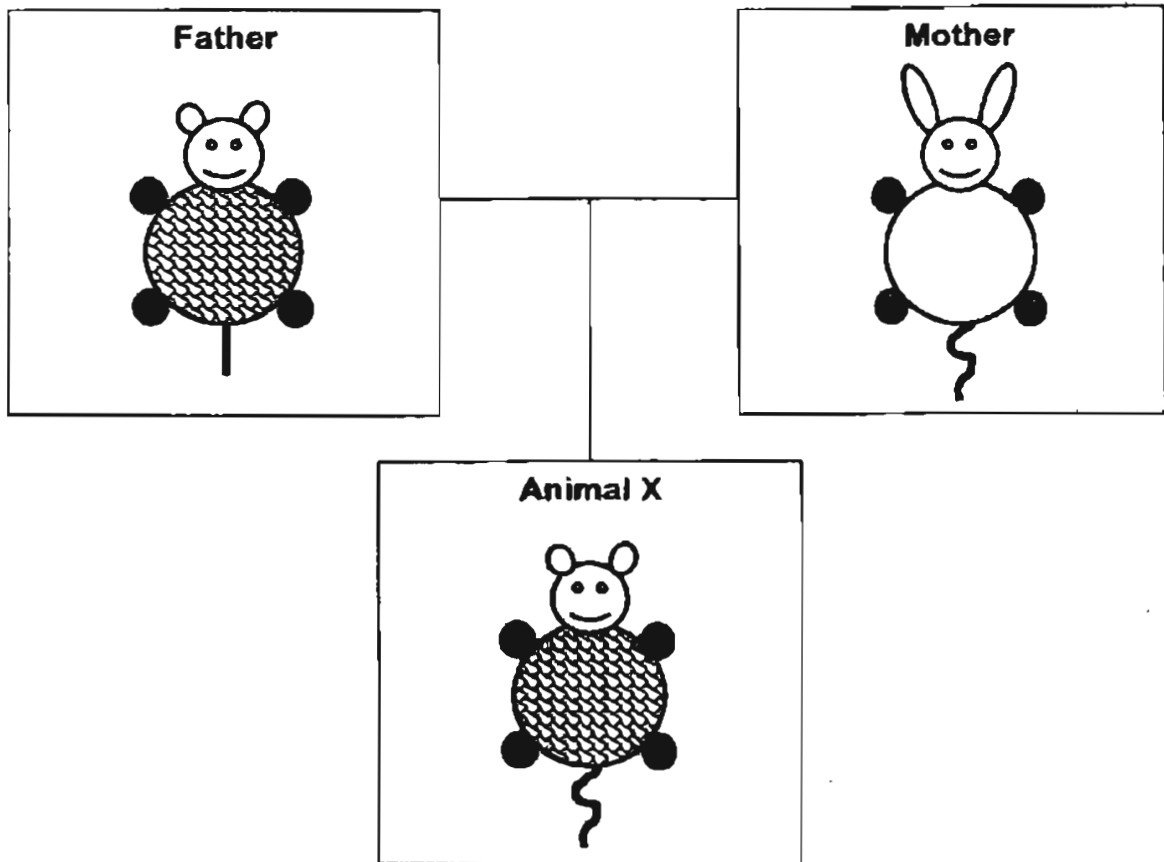
6 The circulatory system _____

- (1) takes in oxygen into the body
- (2) protects the delicate organs of the body
- (3) breaks down food into simpler substances
- (4) carries waste materials away from different parts of the body

7 Which one of the following shows the life cycle of a flowering plant?



8 The diagrams show Animal X and its parents.



What characteristic did Animal X inherit from its father?

- (1) curly tail
- (2) long ears
- (3) short ears
- (4) straight tail

9 Which of the following is a correct example of an animal part and how it helps the animal?

	Animal part	How it helps the animal
(1)	eyes of an eagle	digest food
(2)	hooves of a zebra	catch prey
(3)	teeth of a shark	swim quickly
(4)	ears of a bat	find its way in the dark

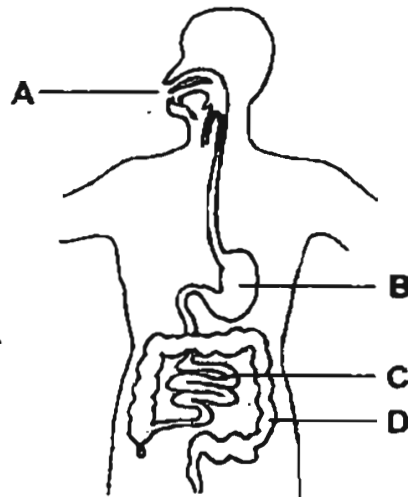
10 Austin gave the following comments when he was given an object.

"Wow! The screen is very colourful."
"I love the ringing sound."
"The buttons are very soft."

Which senses did he use?

- (1) sight and touch only
- (2) touch and hearing only
- (3) sight, hearing and touch only
- (4) taste, hearing and smell only

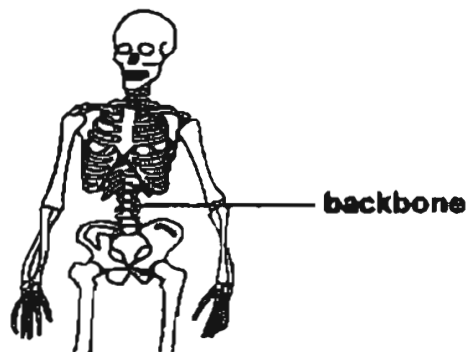
11 The diagram shows the human digestive system.



In which part (A, B, C or D) is food **digested and passed** into the blood vessels?

- (1) A
- (2) B
- (3) C
- (4) D

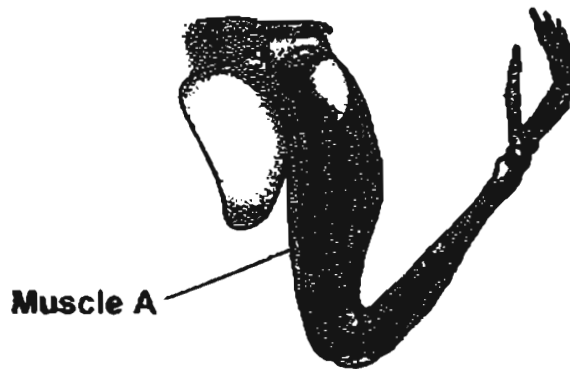
12 Our backbone consists of a row of bones that connects from the _____.



- (1) skull to hip bone
- (2) skull to toe bone
- (3) ribcage to hip bone
- (4) ribcage to toe bone

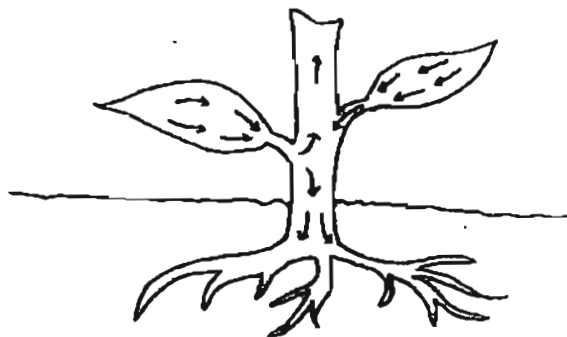
35

- 13 The diagram shows the muscles and bones of the arm.



When the arm is straightened, what happens to Muscle A?

- (1) It swings
 - (2) It relaxes
 - (3) It expands
 - (4) It contracts
- 14 The diagram shows a plant and the path taken by X after photosynthesis.



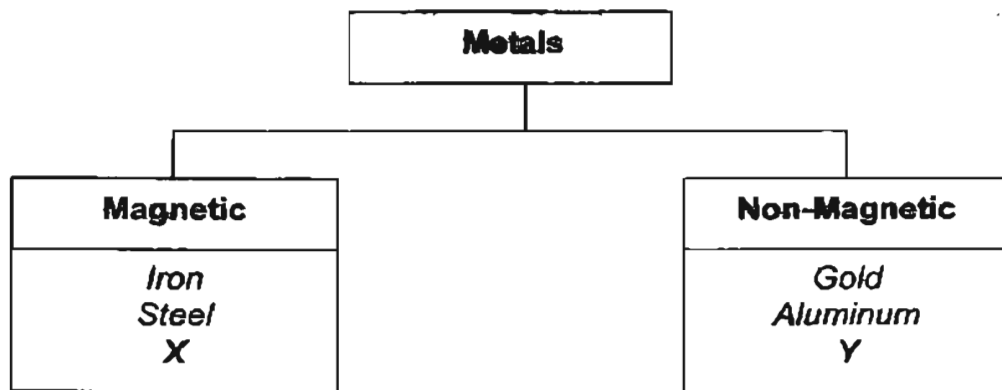
What is X?

- (1) light
- (2) food
- (3) water
- (4) chlorophyll

15 Which one of the following statements about magnets is correct?

- (1) All magnets are made from lodestones.
- (2) The attraction is strongest at the centre of the magnet.
- (3) The north-seeking pole will repel the south-seeking pole.
- (4) Every magnet has a north-seeking pole and a south-seeking pole.

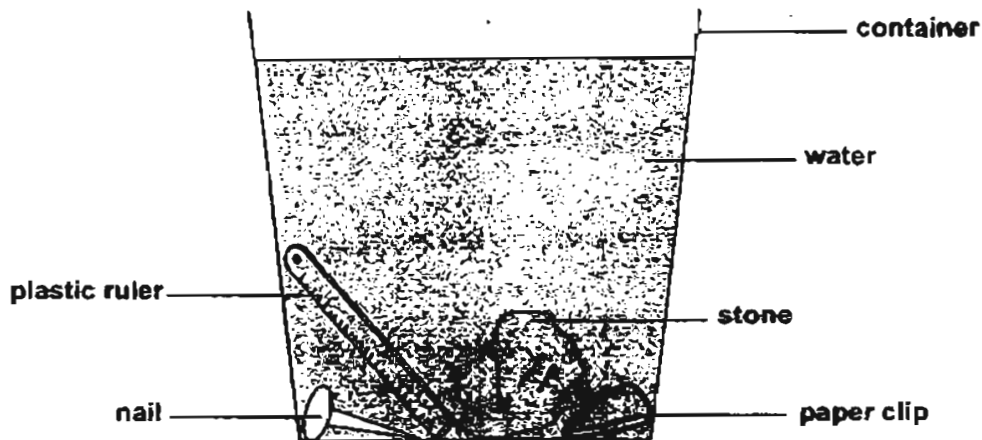
16 Some metals are classified into two groups as shown below.



Which of the following represents X and Y?

	X	Y
(1)	Silver	Copper
(2)	Nickel	Silver
(3)	Copper	Silver
(4)	Copper	Nickel

- 17 Larry was told that he could use a magnet to remove objects from a container of water without touching the water. Which object(s) in the container below could he remove using the magnet?



- (1) Paper clip only.
 (2) Nail and paper clip only.
 (3) Nail and plastic ruler only.
 (4) Paper clip and stone only.
- 18 Which of the following objects can be made into a temporary magnet?



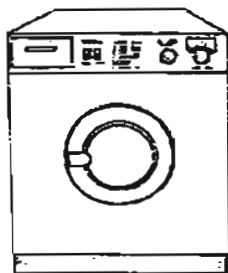
- (1) C only
 (2) A and B only
 (3) A and C only
 (4) A, B and C

19 We can use a magnet to _____.

- A separate staples from sand
- B separate gold and silver objects
- C hold the door onto a door-stopper
- D keep the refrigerator door tightly closed

- (1) A, B and C only
- (2) A, B and D only
- (3) A, C and D only
- (4) B, C and D only

20 Which one of the following things does not make use of magnets?



Washing machine
(1)



Floppy diskettes
(2)



Frying pan
(3)



Compass
(4)

**ANGLO-CHINESE SCHOOL (JUNIOR)
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**PRIMARY 3
SCIENCE**

BOOKLET B

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INSTRUCTIONS TO CANDIDATES

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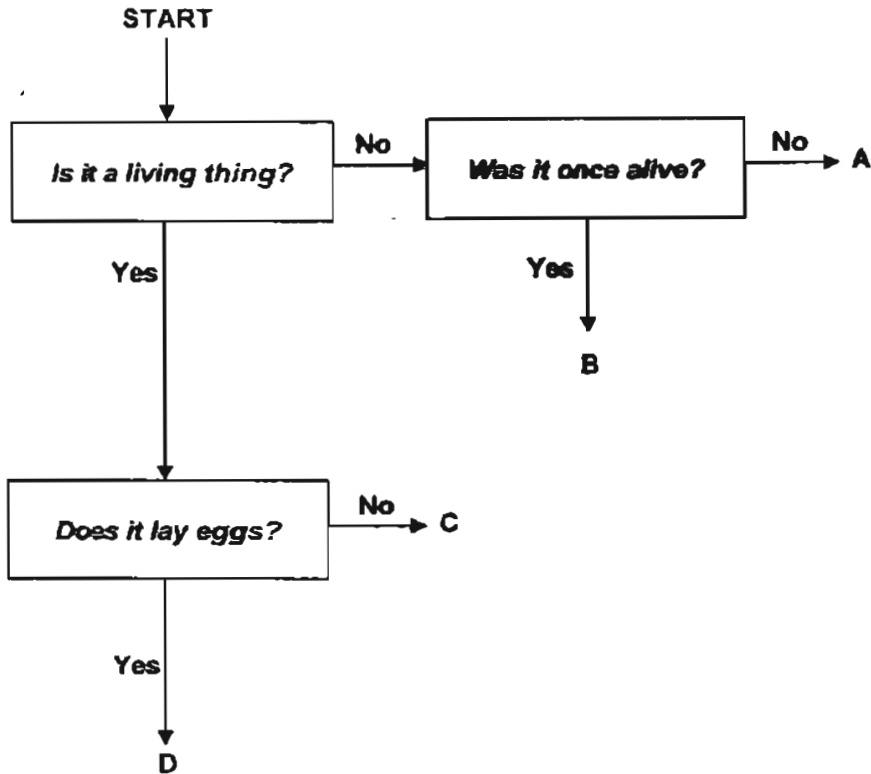
	Maximum Possible Marks	Actual Marks
Q1 to 20	40	
Q21	2	
Q22	4	
Q23 and 24	7	
Q25 and 26	5	
Q27 and 28	5	
Q29	3	
Q30 and 31	6	
Q32	3	
Q33	2	
Q34	2	
Q35	3	
Q36	3	
Q37	3	
Q38	2	
Total	90	

_____ Parent's Signature
_____ Date

Section B (50 marks)

Write your answers to questions 21 to 38 in this booklet.
Fill in the blanks with the correct answers.

21 Study the flowchart below.



(a) Refer to the flowchart and complete the table below by writing A, B, C or D in each of the boxes.

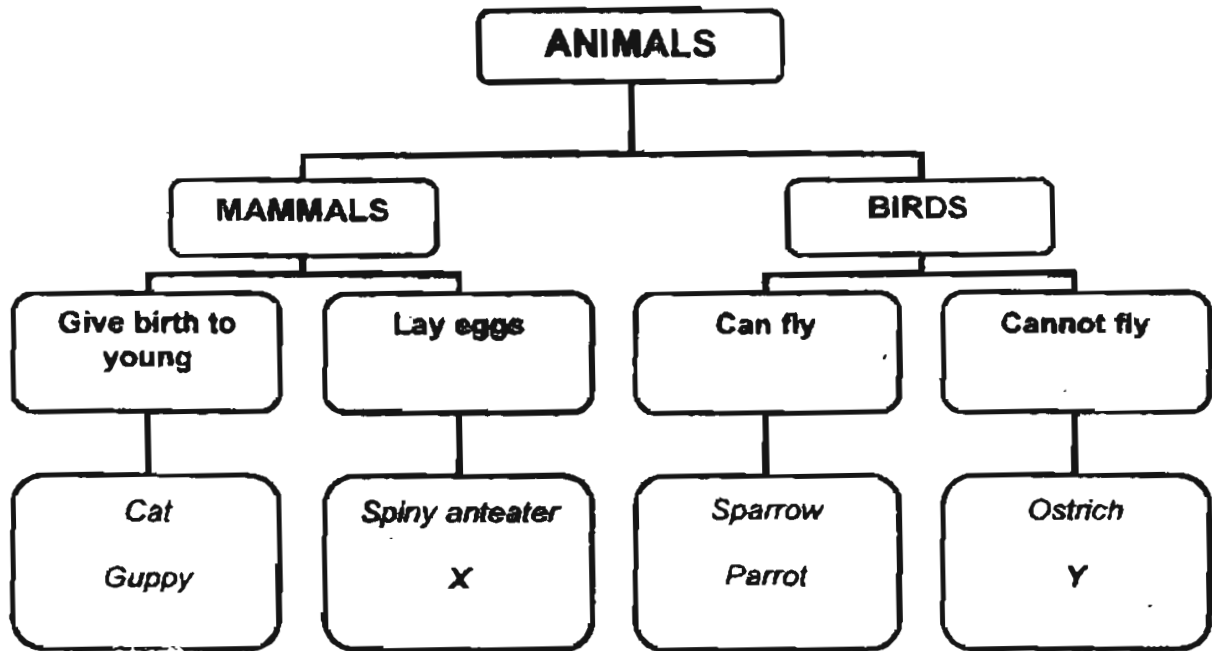
papaya tree	
leather jacket	

[1]

(b) Based on the flowchart, what are the characteristics of D?

[1]

22 The diagram shows a classification table for animals.



(a) One of the above organisms has been classified wrongly.
Which organism is it? Why?

[2]

(b) Give an example of animals X and Y.

X: _____

Y: _____

[2]

23 The diagram below shows a pair of spectacles.

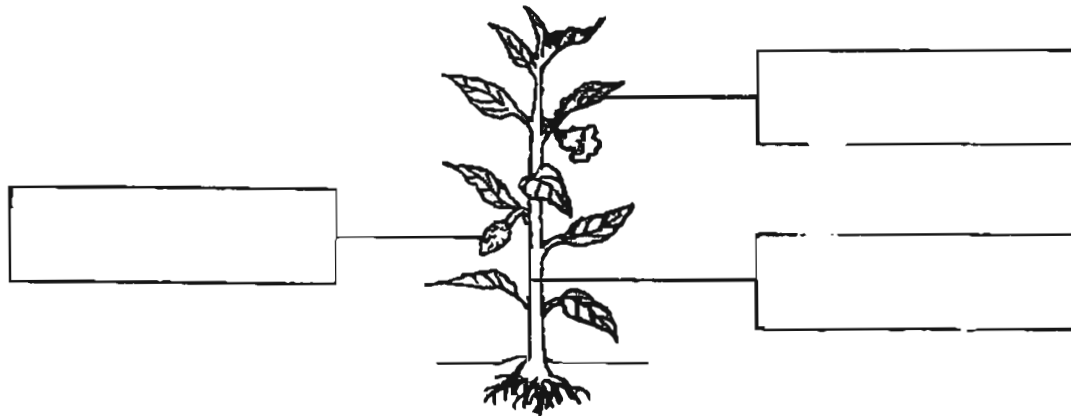


(a) Name two possible materials that part X can be made of. [2]

(b) What material is part Y made of? [1]

(c) Why is Part Y made of this material? [1]

24 The diagram shows a plant.



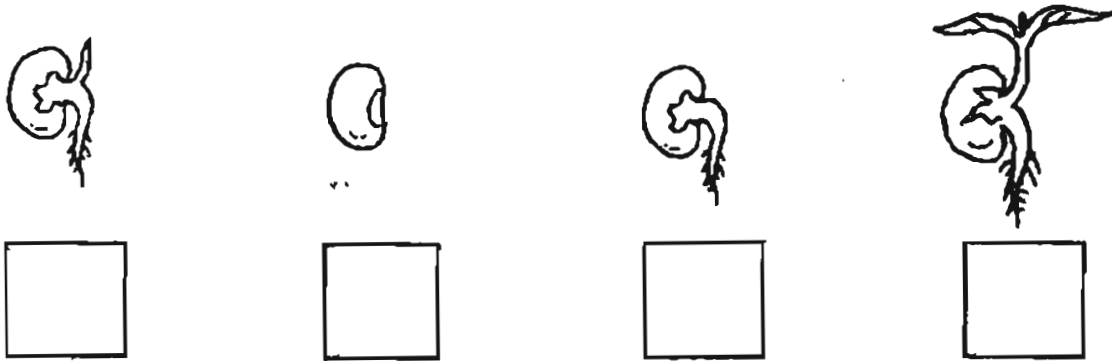
(a) Write 'stem' in the correct box. [1]

(b) Give two functions of the stem of a plant. [2]

(i) _____

(ii) _____

25 The diagram below shows the stages in the growth of a seedling.



(a) Number the boxes from 1 to 4 to show the correct stages in the growth of a seedling. [1]

(b) At which stage (1, 2, 3 or 4) is sunlight necessary in the growth? [1]

(c) What does a seed need to germinate? [1]

26 The diagram below shows a leaf.

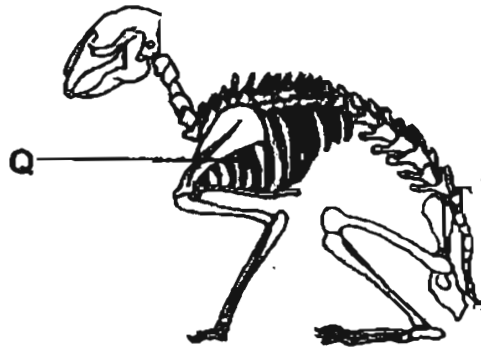
(a) Fill in the boxes with the correct words. [1]

leaf stalk leaf vein leaf blade



(b) Explain why a plant may die if all its leaves are cut off. [1]

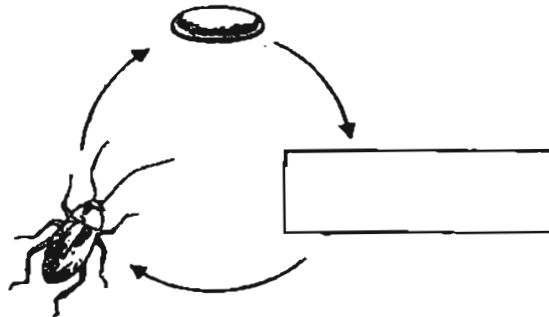
27 The diagram shows the skeleton of a rabbit. Part Q protects an organ.



(a) Which organ does it protect? [1]

(b) In the diagram, draw an arrow to point to another part of the skeleton that protects the rabbit's brain. [1]

28 The diagram below shows the life cycle of a cockroach.



(a) Write in the missing stage in the box. [1]

(b) Besides being smaller in size, how is the young of a cockroach different from its adult? [1]

(c) Name another animal that has a similar life cycle as the cockroach. [1]

29 The table below describes the movement of food through the digestive system. The steps are not in the correct order.

(a) Complete the table by writing the numbers 1 to 6 in the boxes to show the correct order. [1]

Steps	Order of steps
Water is removed from the food. Undigested food is passed out from the anus.	
I take a bite of my burger. My teeth chew and grind the food into smaller pieces.	
Digestion is completed in the small intestine. The digested food passes into blood vessels.	
The food travels down the gullet into the stomach.	
Undigested food passes into the large intestine.	
Digestive juices in the stomach mix with the food to break the food down.	

(b) Name two parts of the digestive system which do not have digestive juices. [2]

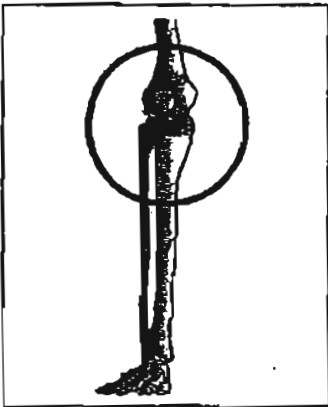
(i) _____

(ii) _____

30 The diagram shows parts of the human skeleton. Two of the joints have been circled.

(a) Draw lines to match the joints to the correct name.

[2]



hip joint

hinge joint

ball and socket joint

elbow joint

(b) Which type of joint allows us to make circular movements?

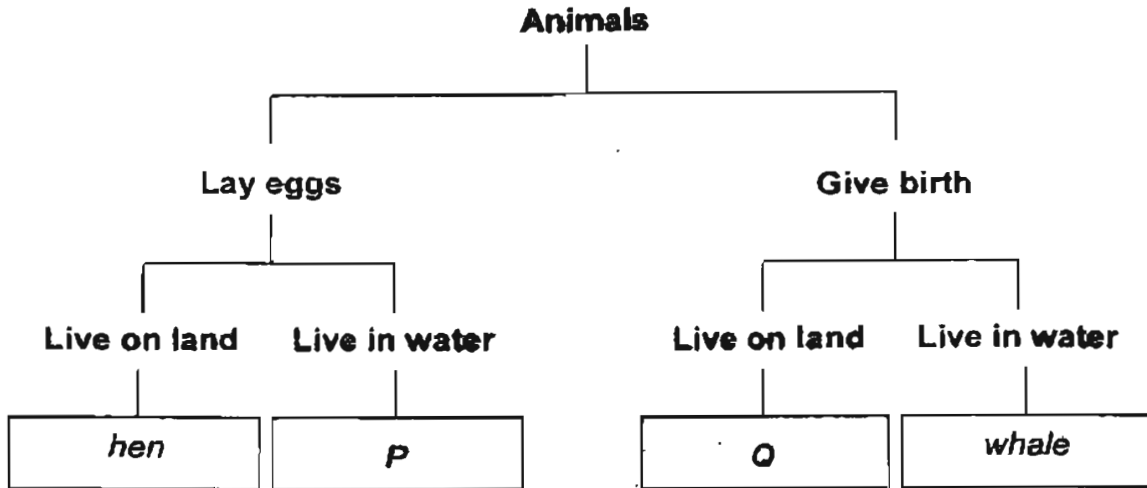
[1]

31 Fill in the blanks with a suitable word.

[3]

There is a great variety of living things in the world. Living things always _____ their own kind. Many young animals look like their parents except that they are _____ in size. Some young animals look very _____ from their parents. However, they grow up to look like their parents.

32 Study the classification table below.



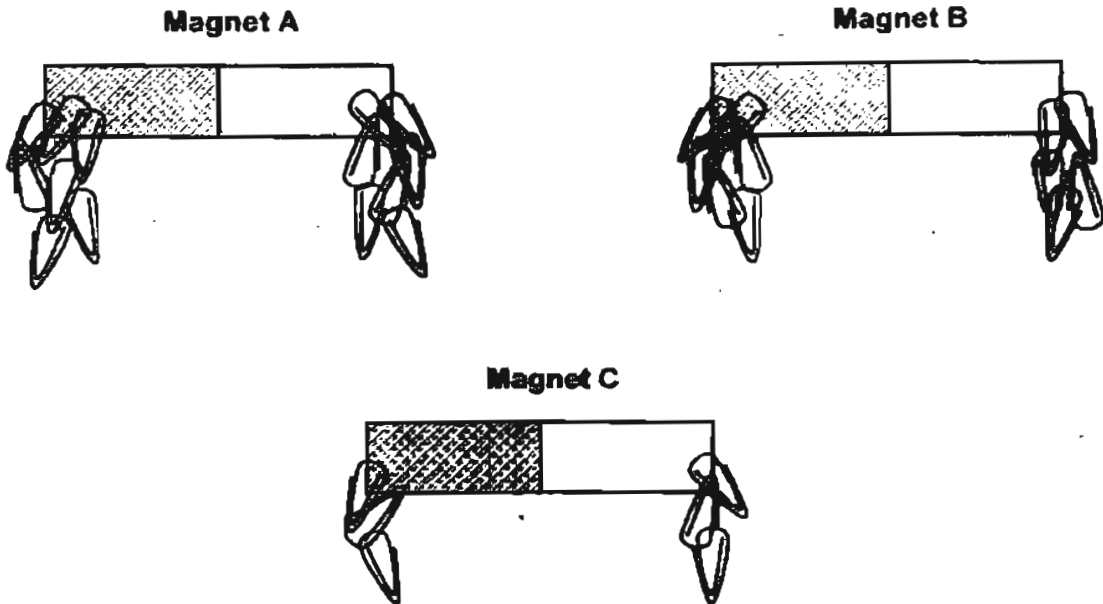
(a) Which animals could be P and Q? [1]
Circle the animal that could be P and cross the animal that could be Q.

cockroach	ant	kiwi
dolphin	goldfish	bat

(b) Duckweed cannot be grouped in the classification table. Why? [1]

(c) The frog can be placed in the same group as the hen. It can also be placed in the same group as Animal P. Why? [1]

- 33 Gerard had three magnets of the same size and shape. He brought them near some paper clips and the number of paper clips each magnet attracted is shown in the diagram below.



- (a) Which magnet is the weakest? [1]

- (b) Suggest a reason for the magnet becoming the weakest. [1]

- 34 Hamidah wanted to find out whether objects A, B, C and D are magnets. She conducted an experiment and recorded the results in the table below.

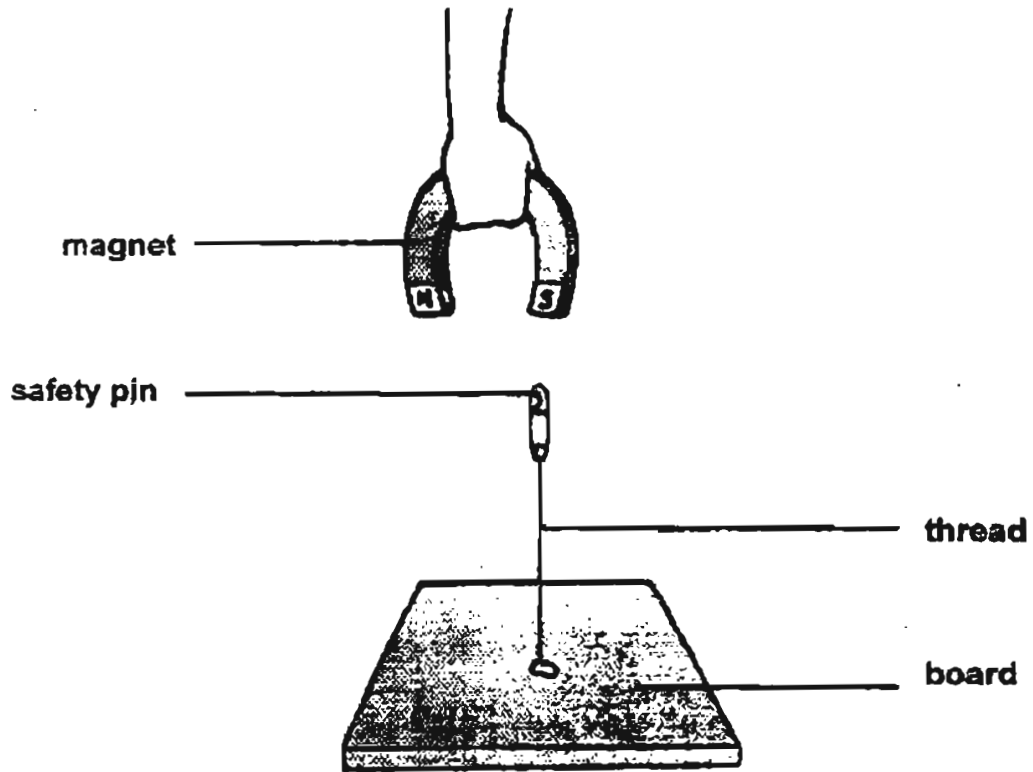
A tick (✓) means that objects A, B, C and D could attract the items.

	ITEMS			
	Eraser	Scissors	Safety pin	Paper
A		✓	✓	
B				
C				
D		✓	✓	

- (a) Which of the two objects (A, B, C or D) are magnets? [1]

- (b) What is another way that Hamidah can use to prove that both objects are magnets? [1]

35 Clarice set up an experiment as shown below.



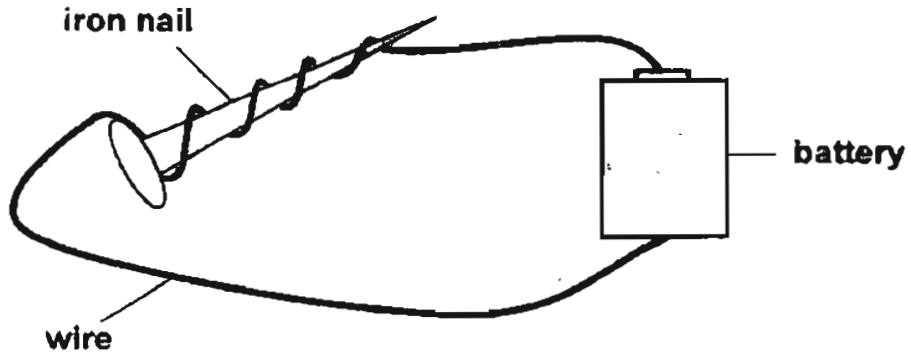
(a) Why does the safety pin appear to 'float' in the air? [1]

(b) Fill in the blanks with appropriate words.

Clarice places an iron sheet between the magnet and the safety pin. The safety pin will _____. This shows that the iron is made of _____ material. The magnetic force cannot pass through such materials.

[2]

36 Sammy set up the materials as shown in the diagram below.



(a) What type of magnet will the nail become? [1]

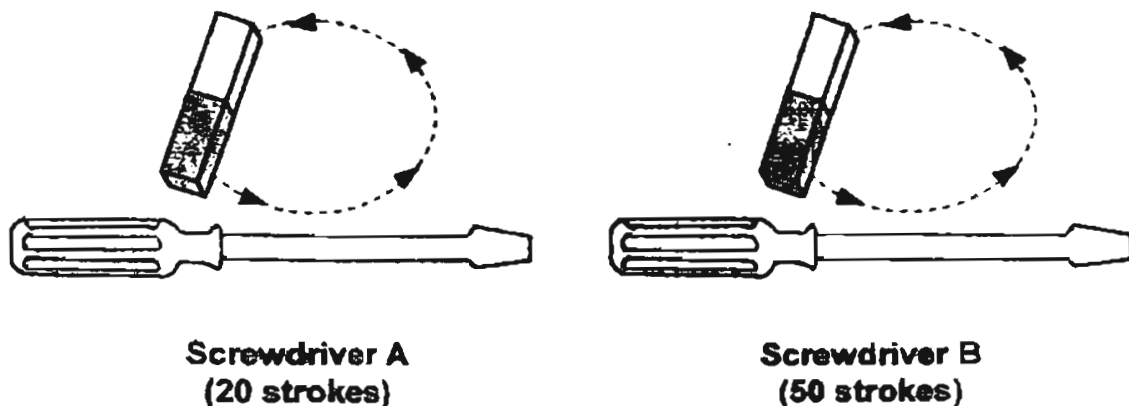
(b) Suggest two ways to increase the magnetic force of the nail? [2]

(i) _____

(ii) _____

✓2

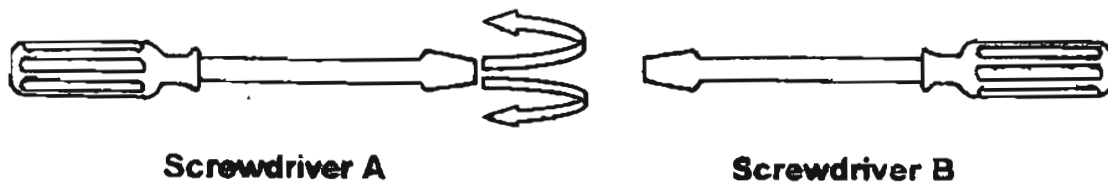
37 Tommy used two similar screwdrivers and stroked them with a magnet.



(a) What happened to the metal parts of the screwdrivers? [1]

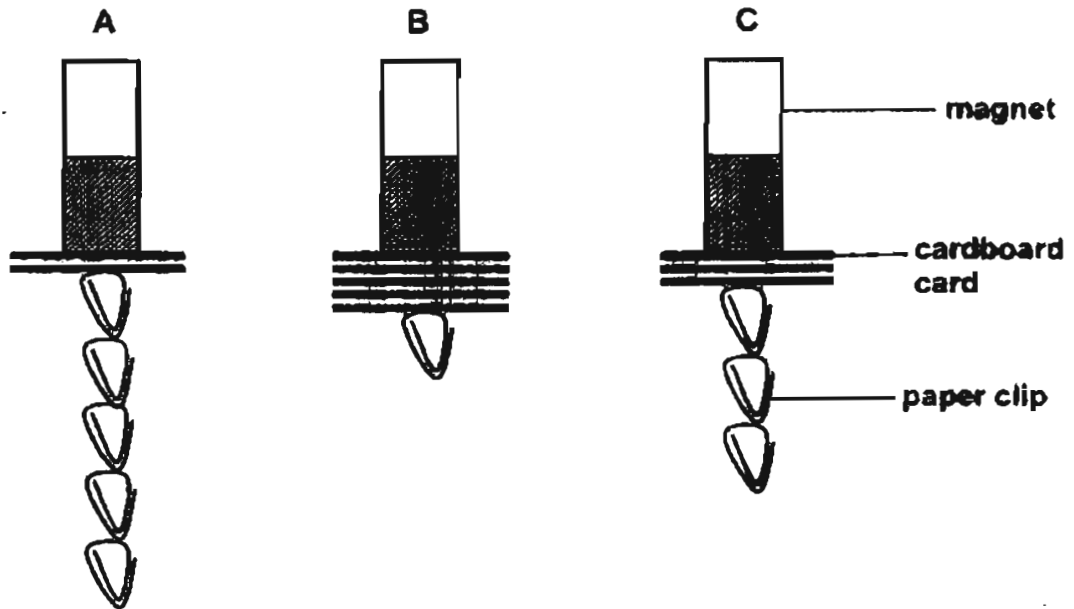
(b) After they had been stroked with a magnet, what was the difference between Screwdriver A and B? Why? [1]

(c) Tommy held Screwdriver B next to Screwdriver A as shown below.



He observed that Screwdriver B repelled Screwdriver A. Why? [1]

38 Ailing used some cardboard cards to test the number of paper clips each of the magnets could attract. She used similar magnets.



(a) Based on the diagram above, complete the table by filling in the boxes with the correct numbers.

[1]

Magnet	Number of cardboard cards	Number of paper clips attracted
A	2	5
B		1
C	3	

(b) What pattern did she notice between the number of cardboard cards used and the number of paper clips attracted?

When _____ cardboard cards were used, _____ paper clips could be attracted by each magnet.

[1]

End of Paper



Answer Sheets

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- 1)2 2)4 3)2 4)2 5)4 6)4
7)1 8)3 9)4 10)3 11)3 12)1
13)4 14)2 15)4 16)2 17)2 18)3
19)3 20)3

21)a. papaya tree =C leather jacket =B b. D is a living thing and lay egg

22)a. Guppy, it is a fish b.x:platypus Y:penguin

23)a. Plastic and metal b. Glass c. Glass is transparent

24)a. leaf (top), fruit(centre) ,stem(bottom) b.i. It carries the food and water to the other parts of the plant.
ii. It holds the plant upright

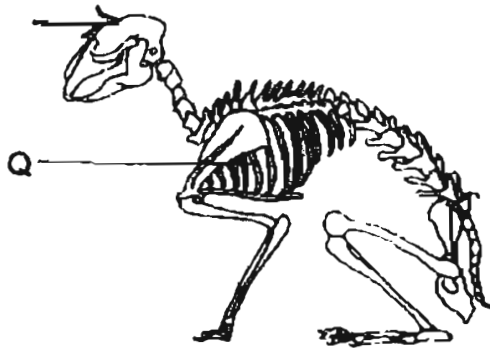
25)a. 3, 1, 2, 4 b. At stage 4 sunlight is necessary in the growth

25)c. A seed needs air, water and warmth to germinate.

26)a. leaf vein(left) leaf stalk (right)

26)b. The plant will not be able to make food causing it to die.

27)a. Part Q protects the heart and lungs.



b.

28)a. nymph b. The young of a cockroach does not have wings but the adult cockroach has wings. C. The dragonfly



Answer Sheets

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- 29)a.6,1,4,2,5,3 b.i. The gullet ii. The large intestine.
- 30)a. Ball and socket joint (top), hinge joint (bottom) b. The ball and socket joint.
- 31) reproduce, different, different 32a. golf fish: circle, bat: cross
- 32)b. The duckweed can make its own food, it is not reproduce by birth or laying egg. c. They are reproduce by egg and young tadpole stay in water.
- 33) Magnet C b. General heated magnet C over a fire causing it to lose a bit of its magnetism.
- 34) Object A and D b. Hamidah can try and use object A and repel object D
- 35)a. The magnet is attracting the safety pin. b. drop, magnetic
- 36)a. The nail will become an electromagnetic. b.i. Make more coils around the nail. b.ii. Put more batteries.
- 37)a. They became magnets. b. Screwdriver A was weaker than screwdriver B. Tommy stroked screwdriver B with magnet a magnet more than screwdriver. c. Screwdriver A's and B's like poles are facing each other.
- 38)a. B: -5, 1 c: -3, 3 b. more, lesser

VB
- END -