

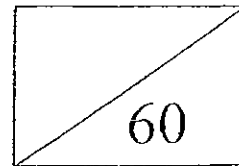
KONG HWA SCHOOL  
SEMESTRAL ASSESSMENT ONETWO 2008  
SCIENCE  
PRIMARY 3

Name: \_\_\_\_\_ ( )

Class: Primary 3/ \_\_\_\_\_

Date : 29 October 2008

Marks



Parent's Signature: \_\_\_\_\_

BOOKLET A  
30 MULTIPLE CHOICE QUESTIONS  
60 MARKS

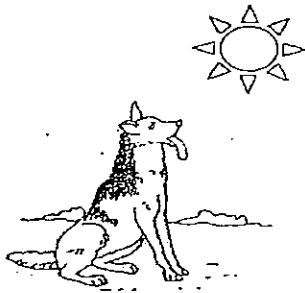
Total time for Booklets A and B: 1 h 30 mins

DO NOT LOOK AT THE QUESTIONS UNTIL YOU ARE TOLD TO DO SO.  
FOLLOW ALL INSTRUCTIONS CAREFULLY.  
DO NOT WASTE TIME. IF A QUESTION IS DIFFICULT FOR YOU, GO ON TO  
THE NEXT ONE.  
REMEMBER TO ANSWER ALL QUESTIONS.

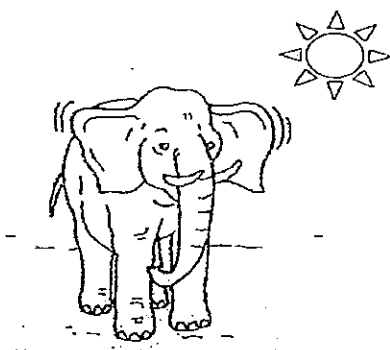
Section A ( 2 marks each )

For each question, four options are given. Only one of them is the correct answer. Choose the correct answer ( 1, 2, 3 or 4 ) and shade the correct oval ( 1, 2, 3 or 4 ) on the Optical Answer Sheet provided. ( 60 marks )

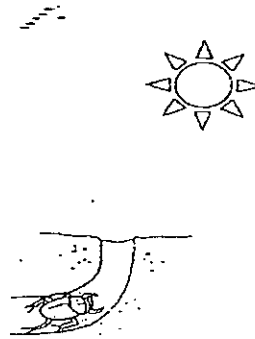
1. Look at the animals shown below.



A dog hanging out its tongue.



An elephant fanning its ear.



A beetle hiding underground.

Which of the following characteristics of living things are the animals showing?

- (1) They can grow.
- (2) They can reproduce.
- (3) They need food to stay alive.
- (4) They can respond to changes around them.

( )

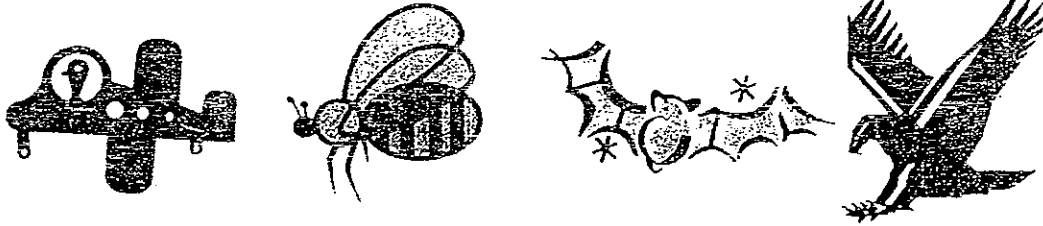
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2. Which one of the following objects is made from things that were never alive?

- (1) Tyre
- (2) Magazine
- (3) Sandcastle
- (4) Leather boots

( )

3. The things shown below are grouped together because they \_\_\_\_\_.



Aeroplane

Bee

Bat

Eagle

- (1) can fly
- (2) can reproduce
- (3) can respond to changes
- (4) can move by themselves

( )

4. Observe the following leaves.

Leaf X



Leaf Y



Which statement about leaves X and Y is not true?

- (1) They have different shapes.
- (2) They have different edges.
- (3) They are from the same plant. <sup>different plant</sup>
- (4) They are different in the arrangement of their veins

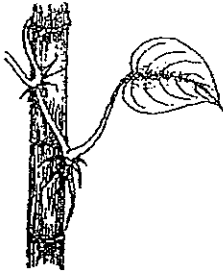
( )

5. I secrete juices and complete the digestion process.  
Who am I?

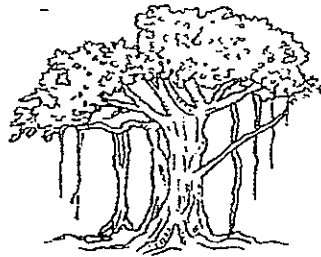
- (1) Mouth
- (2) Stomach
- (3) Small intestine
- (4) Large intestine

( )

6. Look at the diagrams of the three plants below.



Money plant



Banyan tree



Potato plant

Which of the following statements about plants can be made from the above diagrams?

- A) Plants can make food for themselves.
- B) Plants have different types of stems.
- C) Plants have different types of roots.
- D) Plants can live on land and in water.

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

( )

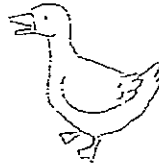
7. Which of the following animals below gives birth to young alive?

(1)



frog

(2)



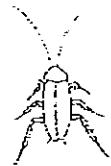
duck

(3)



seal

(4)



cockroach

( )

---

8. Which one of the following animals is not an insect?

(1) Ant

(2) Spider

(3) Butterfly

(4) Grasshopper

( )

---

9. A plastic bag is different from a paper bag because a plastic bag is \_\_\_\_\_.

(1) hard

(2) rough

(3) flexible

(4) waterproof

( )

---

10. We can use a nail clipper to cut our fingernails because the nail clipper is \_\_\_\_\_ than our fingernails.

(1) softer

(2) harder

(3) more flexible

(4) more waterproof

( )

---

11. Platypus and spiny anteater are covered with \_\_\_\_\_.

- (1) hairs
- (2) scales
- (3) shells
- (4) feathers

( )

---

12. Which animal fits the description below?

It lays eggs.  
Its scale is scaly and dry.  
It uses its sticky tongue to catch insects.

- (1) Frog
- (2) Turtle
- (3) Lizard
- (4) Crocodile

( )

---

13. Which one of the following statements about bread mould and fern is true?

- (1) They are flowering plants.
- (2) They are non-green plants.
- (3) They can reproduce by spores.
- (4) They can make their own food.

( )

---

14. The tube that travels down to the stomach is called the \_\_\_\_\_.

- (1) anus
- (2) gullet
- (3) small intestine
- (4) large intestine

( )

---

15. The body is able to move because the muscular system works together with the \_\_\_\_\_ system.

- (1) skeletal
- (2) digestive
- (3) circulatory
- (4) respiratory

( )

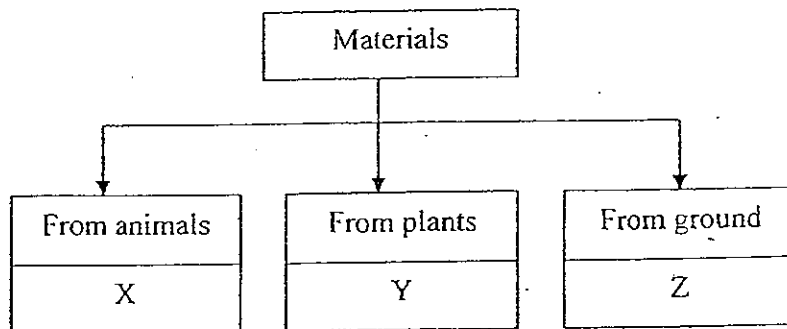
16. Which of the following are micro-organisms?

- A) Yeast
- B) Bacteria
- C) Mushrooms
- D) Bracket fungus

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

( )

17. Which of the following do X, Y and Z represent?



	X	Y	Z
(1)	wool	wood	rubber
(2)	silk	plastic	leather
(3)	cotton	rubber	iron
(4)	leather	cotton	gold

( )

18. Which of the following is true about our circulatory system?
- A) It breaks down food into simple substances.
  - B) It enables the exchange of gases with the surrounding.
  - C) It carries food, water and oxygen to all parts of the body.
  - D) It carries waste materials away from the different parts of the body.

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

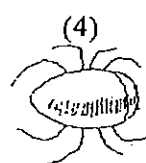
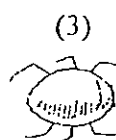
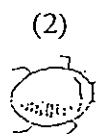
( )

- 
19. Which of the following shows the order of how food moves through our digestive system after it enters our mouth?

- (1) Gullet → stomach → large intestine → small intestine → anus
- (2) Stomach → small intestine → large intestine → anus
- (3) Gullet → stomach → small intestine → large intestine → anus
- (4) Stomach → gullet → small intestine → large intestine → anus

( )

- 
20. Which of the animals below is likely to be an insect?

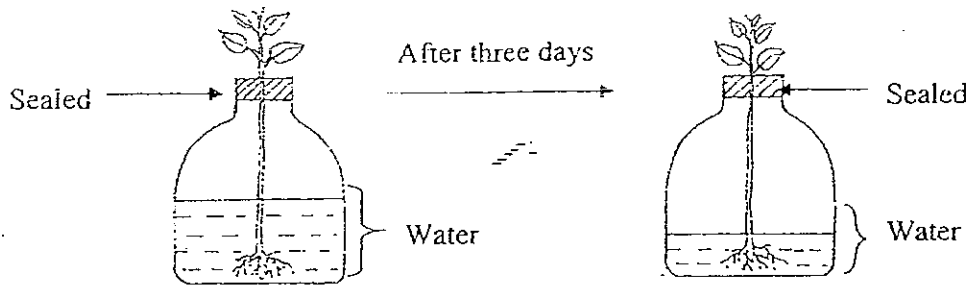


( )



21.

Tom set up an experiment as shown below.



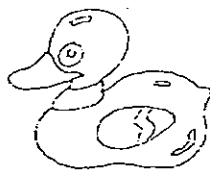
What can Tom conclude from the above experiment?

- (1) Plants take in water through their roots.
- (2) Plants grow upwards toward the sunlight.
- (3) Plants can respond to changes around them.
- (4) Water in the bottle evaporates after three days.

( )

22.

What is the **difference** between the two ducks below?



Duck A  
Rubber duck

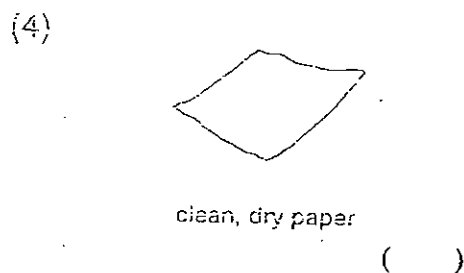
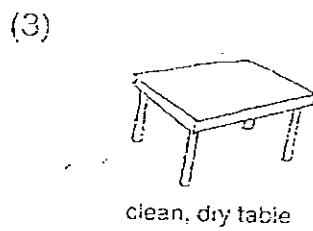
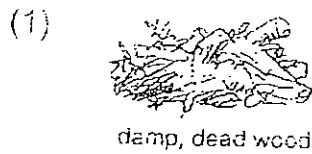


Duck B  
Duck

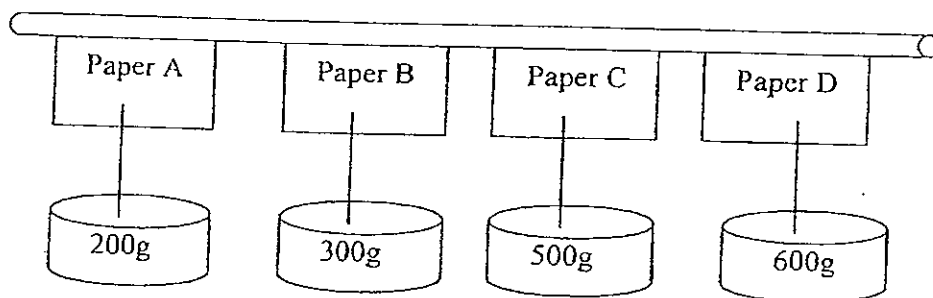
- (1) Duck A can walk while Duck B cannot.
- (2) Duck A can quack while Duck B cannot.
- (3) Duck A cannot swim while Duck B can.
- (4) Duck A cannot lay eggs while Duck B can.

( )

23. Which one of the following pictures is likely to show signs of fungus growth after a few days?



24. Martin set up an experiment to find out the strength of four different types of paper. The following diagram shows the maximum amount of weight that each paper could withstand before it tore.



Which of the papers is considered to be the **strongest**?

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

( )

25. Peter made an object which has the following properties:

- light
- waterproof
- soft and flexible
- colourful and melts on heating

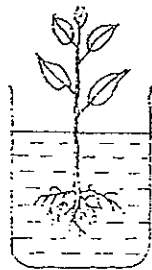
Which of the following groups of objects has the most similar properties as Peter's?

	Group of Objects
(1)	Pot, teacup
(2)	Bucket, mug
(3)	Book, newspaper
(4)	Raincoat, plastic bag

( )

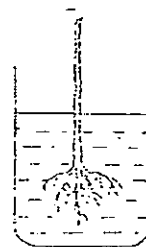
26. Mary wanted to find out if the roots of the plant absorb water.  
Which two of the following setups should she choose for the test?

(A)



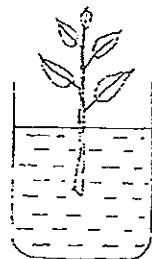
Setup A

(B)



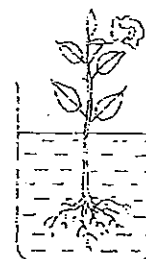
Setup B

(C)



Setup C

(D)

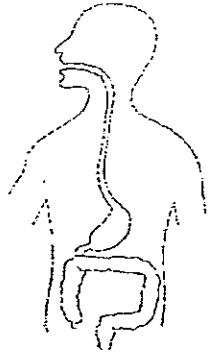


Setup D

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

( )

27. Which part of the digestive system in the diagram below is missing?



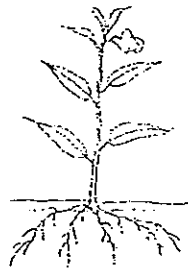
- (1) Stomach
- (2) Small intestine
- (3) Large intestine
- (4) None of the above

( )

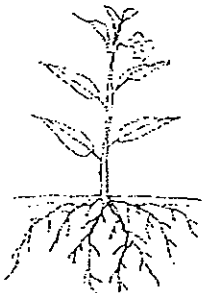
28. Which of the following plants is the most difficult to uproot?



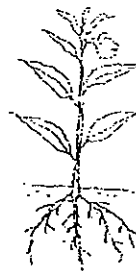
(1)



(2)



(3)



(4)






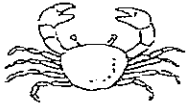


( )

29. I belong to the animal kingdom.  
I lay eggs. I have feathers.  
Who am I?

- (1) Bat
- (2) Guppy
- (3) Ladybird
- (4) Kingfisher

( )

30. Some animals have been grouped below according to their type of outer covering.

A	B	C	D
			
duck	prawn	monkey	guppy
			
eagle	crab	lion	angelfish

Which group would you put the snail in?

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

( )

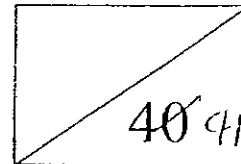
KONG HWA SCHOOL  
SEMESTRAL ASSESSMENT TWO 2008  
SCIENCE  
PRIMARY 3

Name: \_\_\_\_\_ ( )

Class: Primary 3/ \_\_\_\_\_

Date : 29 October 2008

Marks



Parent's Signature: \_\_\_\_\_

BOOKLET B  
OPEN ENDED QUESTIONS  
40 MARKS

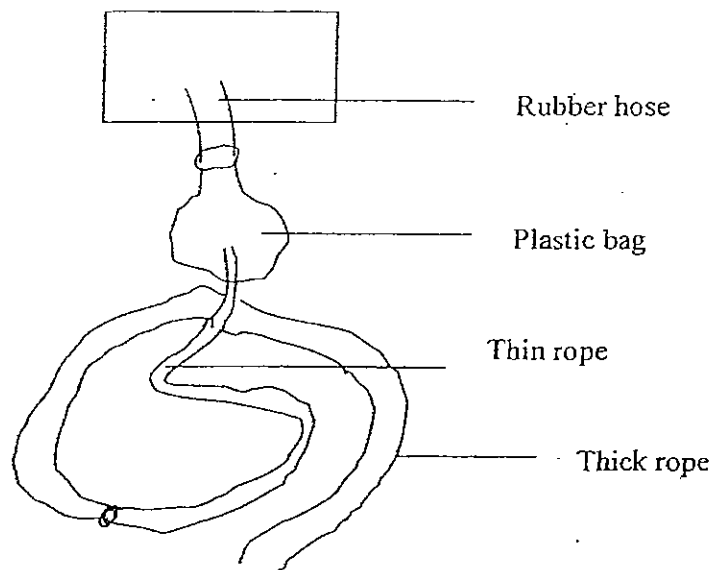
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THE NEXT ONE.  
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**Section B ( 40 marks )**

Write the answers in the spaces provided.

31. Sandy used materials to make a model of the human digestive system as shown below.



- a) Write down the part of the digestive system that each of the following materials represent. (4m)

Model	Digestive System
Rubber hose	i)
Plastic bag	ii)
Thin rope	iii)
Thick rope	iv)

32. Angela conducted a test on some materials and recorded the results in the table below.

Characteristics	X	Y	Z
light	Yes	Yes	Yes
flexible	Yes	Yes	No
waterproof	No	Yes	Yes
Good conductor of heat	Yes	No	No

a) Which is the most suitable material for making the cover of a camping tent?  
Explain your answer. (2m)

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b) Which is the most suitable material for making a plastic spoon?  
Explain your answer. (2m)

---



33. a) What is digestion? (1m)

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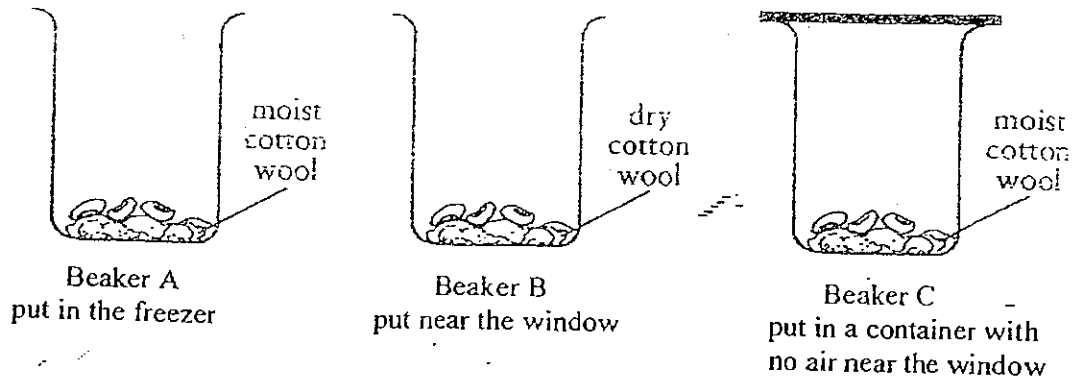
b) Tick the parts where food is being digested. (3m)

Parts of the Digestive System	Tick ( √ )
Mouth	
Gullet	
Stomach	
Small intestine	
Large intestine	
Anus	

c) Why would it be difficult to swallow food if our mouth did not produce saliva? (1m)

---

34. Sifi set up an experiment to find out the conditions needed for green beans to grow. She put three green beans in each beaker and placed them at different locations as shown below.



After one week, none of the seeds grew.  
State one condition needed for the seeds to grow that was missing from each beaker. (3 m)

- (i) Beaker A: \_\_\_\_\_  
 (ii) Beaker B: \_\_\_\_\_  
 (iii) Beaker C: \_\_\_\_\_

35. a) Jonathan did the following actions to simulate the process of digestion in his body. Match his actions to some of the processes in the digestion. (3m)

a) He placed the mixture into a plastic bag and added some lime juice.	Digestion of food in the mouth.
b) He kneaded the bag thoroughly. After some time, he found that the mixture had turned into a pulp.	Digestion of food in the small intestine.
c) He took a piece of cake, crushed it and mixed them with his saliva.	Digestion of food in the stomach.

36. Read the following passage about an animal.

On 20<sup>th</sup> August 2008, a baby woodchuck (groundhog) was born. Naked and blind, it nestles close to its mother's soft tummy, drinks warm milk and falls asleep. It will stay safe in the burrow until it is four weeks old. Finally, fur covers its skin.

- a) Which group of animals will you classify the woodchuck? (1m)

---

- b) State one reason for your answer in (a). (1m)

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37. Compare the cross sections of the two fruits shown below.

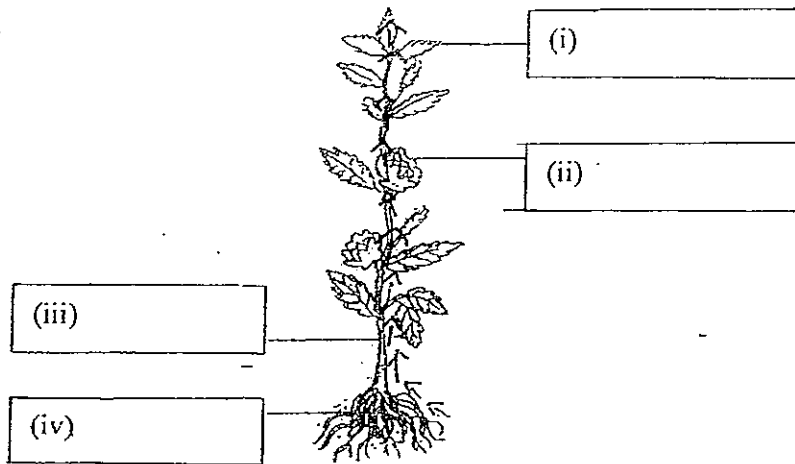


State two differences between these two fruits. (2m)

- i) \_\_\_\_\_  
\_\_\_\_\_
- ii) \_\_\_\_\_  
\_\_\_\_\_

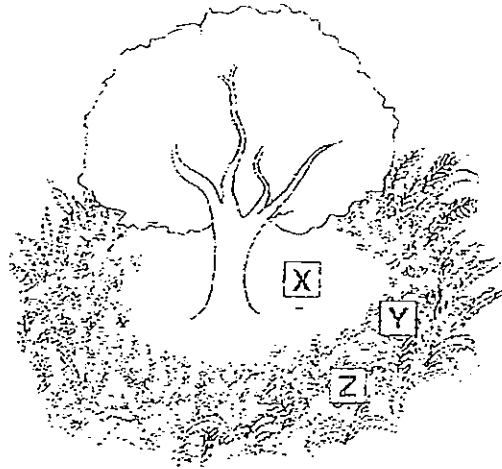
38. The diagram below shows a plant.

a) Name the parts of the plant in the blanks provided. (2m)



b) Draw arrows to show the direction of how water is transported to different parts of the plant (1m)

39. John divides the area around a tree into three parts, X, Y and Z as shown in the diagram below. There are no plants growing in Area X. There are only a few plants growing in Area Y. However, there are many plants growing in Area Z.



Explain why there are no plants growing in Area X but many plants growing in Area Z. (2m)

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40. Write down whether the following statements about plants are true (T) or false (F). (2m)

- a) Tiny tubes in the stem of the plant carry water and mineral salts from the roots to other parts of the plants. \_\_\_\_\_
- b) Plants can make food in the dark. \_\_\_\_\_
- c) Plants only take in oxygen and give out carbon dioxide at night. \_\_\_\_\_
- d) Plants can provide living things with food and oxygen. \_\_\_\_\_

41. Match the following parts of the digestive system to its respective functions: (3m)

<u>Parts of the digestive system</u>		<u>Function</u>
Teeth		Absorbs water from the undigested food.
Tongue		Cut and grind the food into smaller pieces.
Large intestine		Mixes saliva with food.

42. a) Which part of the plant helps to support its branches and leaves? (1m)

---

b) How do the other parts of a plant get the food made in the leaves? (1m)

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43. Jane poured some hot tea into 4 similar teapots made of different materials. She wanted to find out which teapot is best for keeping hot tea over a certain period of time. After an hour, she measured the temperature of the tea and recorded the temperature in the table shown below:

Teapot	Temperature of tea after an hour
Pot A	69°C
Pot B	70°C
Pot C	73°C
Pot D	67°C

- a) From the above table, which teapot would Jane use to keep the tea warm for the longest period of time? (1m)

---

- b) Suggest a type of material that can be used to make the teapot in (a). (1m)

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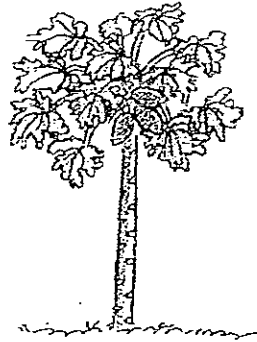
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44. Study the two plants below.



Plant A



Plant B

State the **two differences** you can observe in the leaves of the two plants. (2m)

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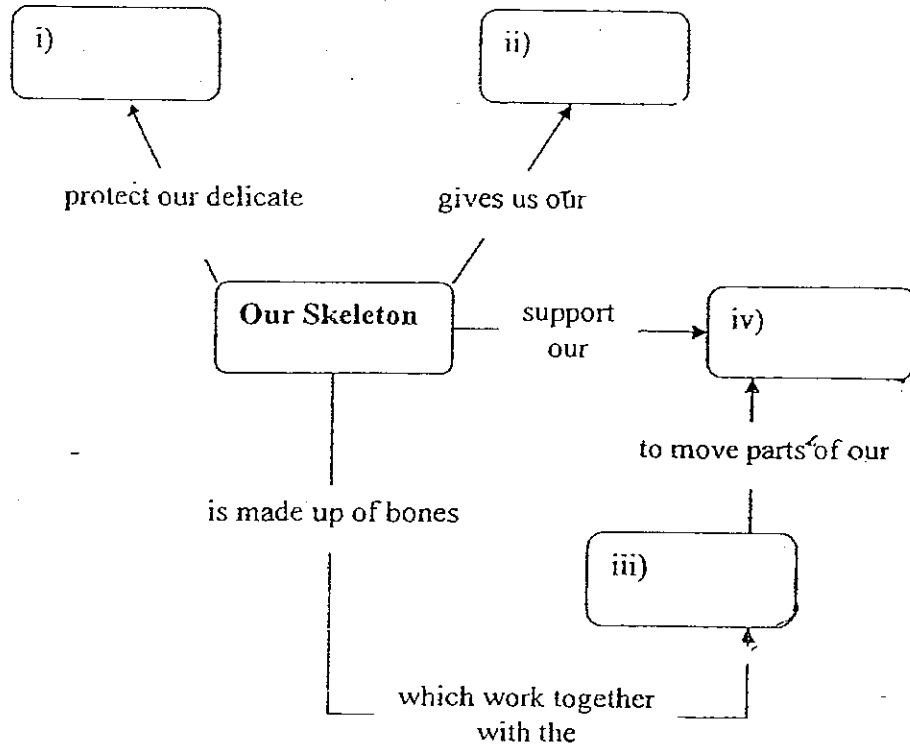
ii)

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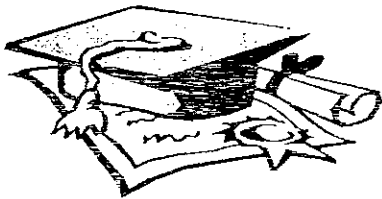
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45. Fill in the blanks with the words given. Use each word once only. (2 m)

bones	organs	respiratory system	body	skin
shape	breath	blood	muscles system	



End-of-Paper  
Please check your work.



# ANSWER SHEET

EXAM PAPER 2008

SCHOOL : KONG HWA PRIMARY SCHOOL  
SUBJECT : PRIMARY 3 SCIENCE

TERM : SA 2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17
4	3	1	2	3	3	3	2	4	2	1	1	3	2	1	1	4

Q18	Q19	Q20	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	Q30
4	3	3	1	4	1	4	4	2	2	1	4	2

31)a)i)Gullet ii)stomach iii)small intestine iv)large intestine

32)a)Y. It is light, flexible and waterproof, and is a bad conductor of heat.

b)Z. It is light and waterproof.

33)a)Digestion is the breaking down of food into simpler substances that the body can use.

b)Mouth, Stomach, Small intestine

c)The food would be too hard for us to swallow.

34)i)warmth ii)water iii)air

35)a→Digestion of food in the stomach.

b→Digestion of food in the small intestine.

c→Digestion of food in the mouth.

36)a)I would classify the woodchuck in the mammals group.

b)The baby woodchuck has fur covering it, means it is a mammal.

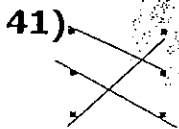
- 37) i) X has many seeds while Y has one seed only.  
ii) X has a hairy skin but Y has a smooth skin.

- 38) a) i) leaves ii) flowers iii) stem iv) roots.



- 39) The crown of the tree has blocked the sunlight from reaching Area X, so the other plants cannot stay alive in Area X as they cannot make food. Area Z is exposed to the sunlight so other plants can make food and grow well in the presence of air, water, and nutrients.

- 40) a) T b) F c) F d) T



- 42) a) The stem helps the plant to support its branches and leaves.  
b) The food will get transferred to other parts of the plant by the stem.

- 43) a) She would use pot C to make D teapot.  
b) I suggest that ceramic is a good type of material.

- 44) i) Plant A has long and narrow leaves while plant B has palm shaped leaves.

- ii) The leaves of plant A have no leaf stalks while the leaves of plant B have long leaf stalks.

- 45) i) organs ii) shape iii) muscles system iv) body