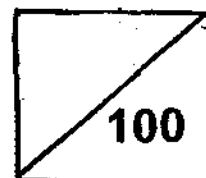




**Rosyth School**  
**First Semestral Assessment for 2009**  
**SCIENCE**  
**Primary 3**

Name: \_\_\_\_\_

Total  
Marks:



Class: Pr 3-\_\_\_\_\_ Register No. \_\_\_\_\_ Duration: 1 h 30 min

Date: 14 May 2009 Parent's Signature: \_\_\_\_\_

Instructions to Pupils:

1. Do not open the booklets until you are told to do so.
2. Follow all instructions carefully.
3. This paper consists of 2 booklets, Booklet A and Booklet B.
4. For questions 1 to 30 in Booklet A, write your answers in the brackets provided.
5. For questions 31 to 46, write your answers in the spaces given in the Booklet B.

	<b>Maximum</b>	<b>Marks Obtained</b>
<b>Booklet A</b>	<b>60 marks</b>	
<b>Booklet B</b>	<b>40 marks</b>	
<b>Total</b>	<b>100 marks</b>	

\* This booklet consists of 15 pages.

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**BOOKLET A (60 MARKS)**

For each question from 1 to 30, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Write the answers in the brackets provided.

1. Refer to the picture shown below.

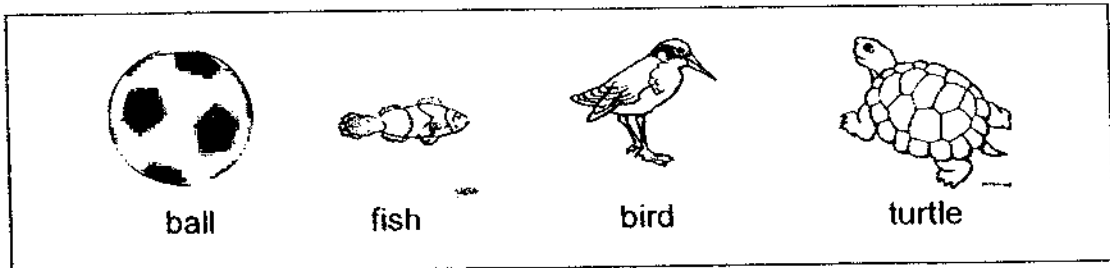


Which one of the following characteristics of living things is shown above?

- (1) Living things can die.
- (2) Living things need food.
- (3) Living things can reproduce.
- (4) Living things can move by themselves.

(            )

2. Study the things in the group as shown below.



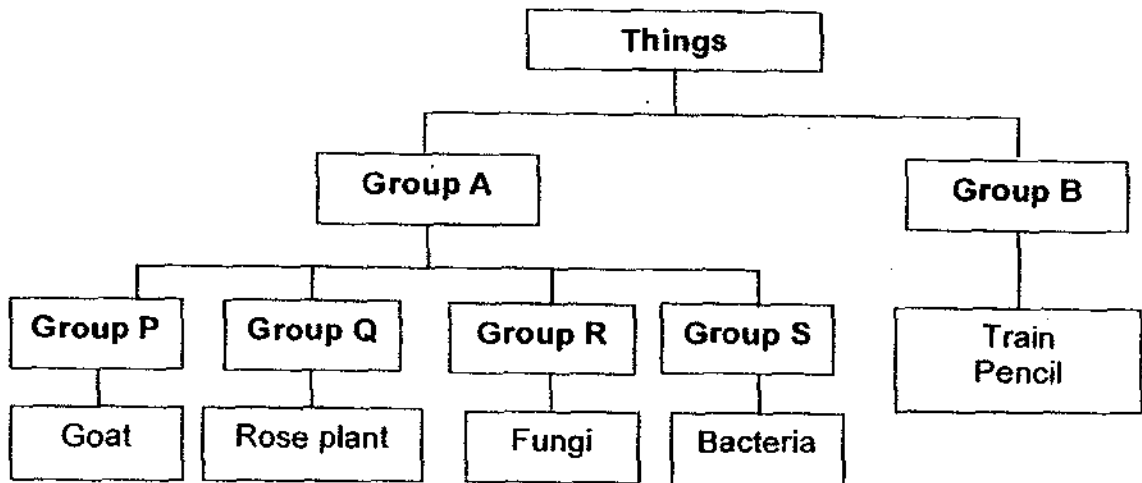
Which one of the things shown above does not belong to the group?

- (1) ball
- (2) fish
- (3) bird
- (4) turtle

(            )

Refer to the classification diagram and answer Questions 3 and 4.  
The classification diagram below shows how some things are grouped.

3.



3. Which of the following headings best describe Group A and Group B?

	Group A	Group B
(1)	Will die	Will reproduce
(2)	Will reproduce	Will not respond to changes
(3)	Will grow	Will not grow
(4)	Will not move by themselves	Will move by themselves

( )

4. In which group would you place "grass" under?

- (1) Group P
- (2) Group Q
- (3) Group R
- (4) Group S

( )

5. Four students made the following statements about living things.

- Andy: All living things have hair.
- Benny: All living things can make their own food.
- Candy: All living things reproduce their own kind.
- Danny: All living things can move by themselves.

Who has/have made the correct statements?

- (1) Andy and Benny only
- (2) Benny and Candy only
- (3) Candy and Danny only
- (4) Danny and Andy only

( )

6. Tom's mother just gave birth to a baby girl, Amy. Tom wants to keep track of Amy's height. The table below shows how Tom recorded Amy's height over a period of five months.

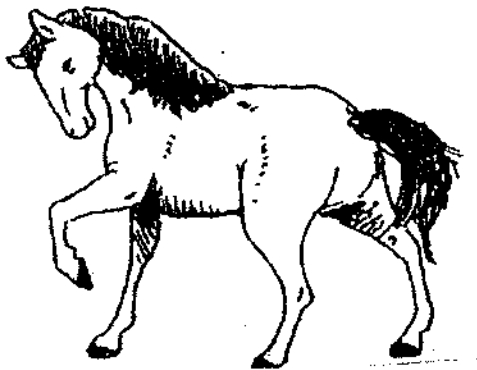
Month	Height (cm)
1st	50
2nd	52
3rd	55
4th	58
5th	61

Based on the information in the table above, what can Tom conclude about Amy?

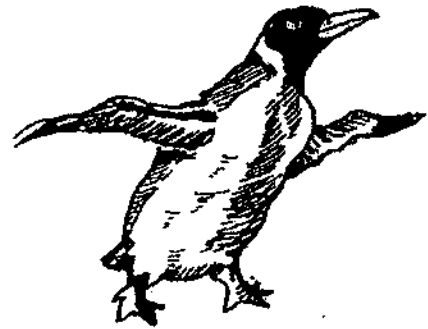
- (1) Amy's height increases every month.
- (2) Amy's height decreases every month.
- (3) Amy needs air, food and water to grow.
- (4) Amy needs air, milk and water to grow.

( )

7. Look at the two pictures below.



Animal C



Animal D

Based only on your observation of the two pictures above, which of the following is true?

- (1) Animal C has a beak but Animal D does not.
- (2) Animal C has four legs but Animal D has two legs.
- (3) Animal C eats plants only but Animal D eats animals only.
- (4) Animal C lives on land but Animal D lives on both land and water.

( )

8. Which of the following living things can make their own food?

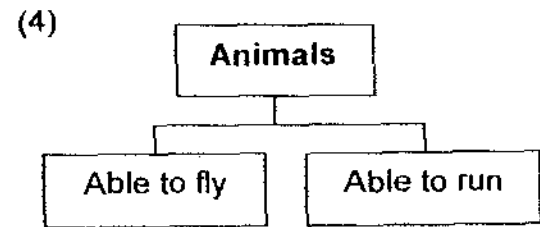
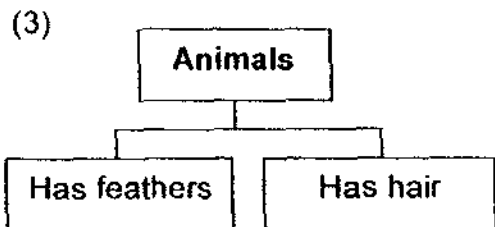
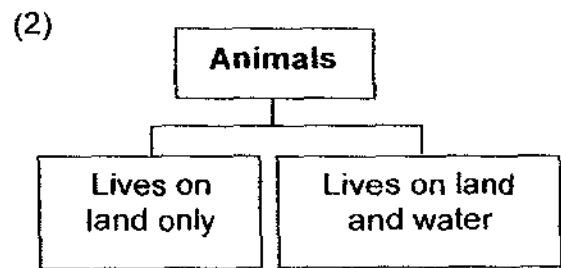
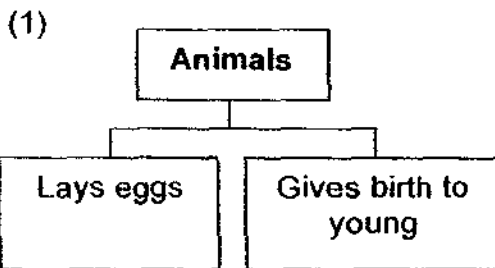
- A: Plant
- B: Animal
- C: Fungi
- D: Bacteria

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

( )

9. Fatimah wanted to put "parrot" and "tiger" into two groups using different headings respectively.

Which one of the following headings is not possible to group the two animals?



( )

10. Which of the following characteristics can we use to determine if an animal is a fish?

- A: Whether the animal has gills
- B: Whether the animal can swim
- C: Whether the animal has fins
- D: Whether the animal has three body parts

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

( )

11. Peter saw an unknown animal in the garden. He kept it in a cage and observed it for a few days. He wanted to find out if the animal is a bird. He did the following:

- A: Find out if the animal can fly.
- B: Examine if the animal has a beak.
- C: Examine if the animal has feathers.
- D: Find out if the animal eats animals only.

Which of the above (A, B, C and D) would definitely help Peter to determine if the animal was a bird?

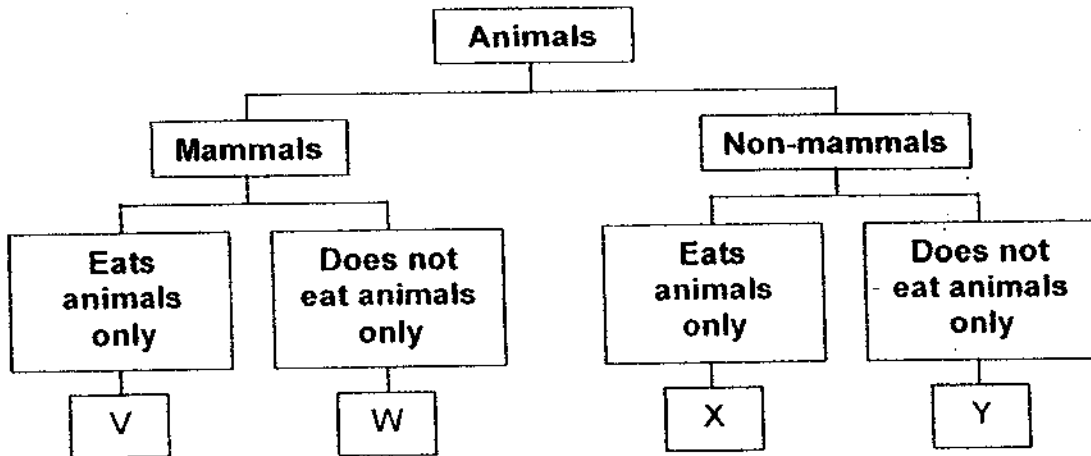
- (1) A and C only
- (2) A and D only
- (3) B and C only
- (4) B and D only

( )

12. The following table shows some characteristics of two animals, F and G. A tick (✓) shows that the animal has the characteristic.

	F	G
Feeds on it's mother's milk	✓	
Eats animals only		✓

Based on the information in the table above, which letters V, W, X and Y best represent Animal F and G respectively?



- (1) V and W
- (2) W and X
- (3) X and Y
- (4) V and Y

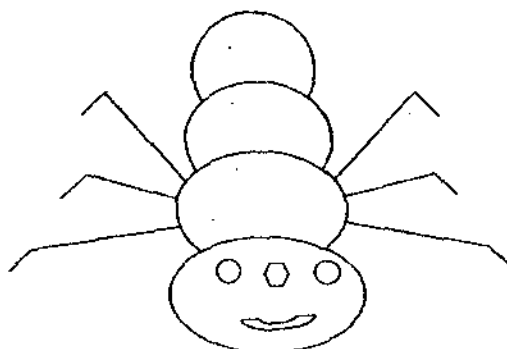
( )

13. Which of the following statements about insects is false?

- (1) All insects can fly.
- (2) All insects lay eggs.
- (3) All insects have six legs.
- (4) All insects have three body parts.

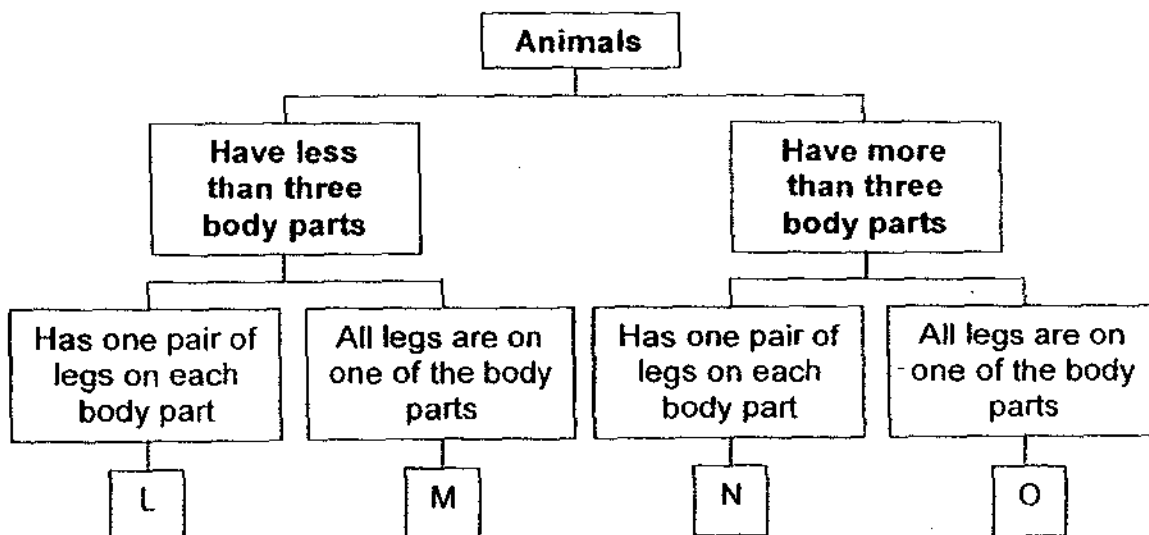
(       )

14. Christine sketched a picture of an imaginary animal, Ziko, as shown.



Animal Ziko

She wanted to classify Animal Ziko in the classification diagram below.

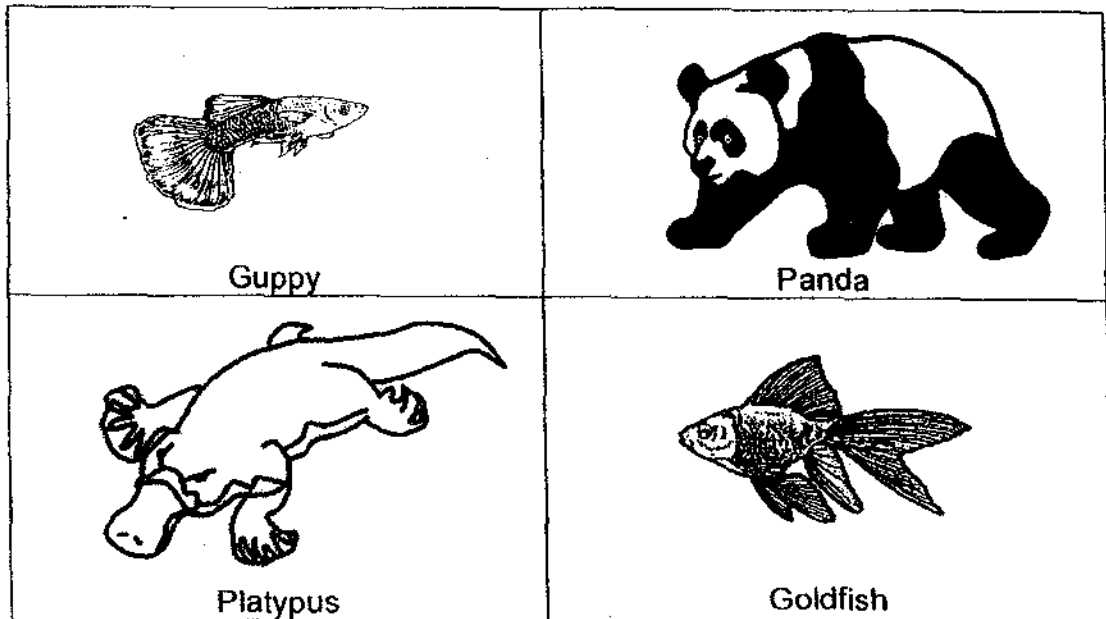


Which letter (L, M, N or O) in the classification diagram best represents Animal Ziko?

- (1) L
- (2) M
- (3) N
- (4) O

(       )

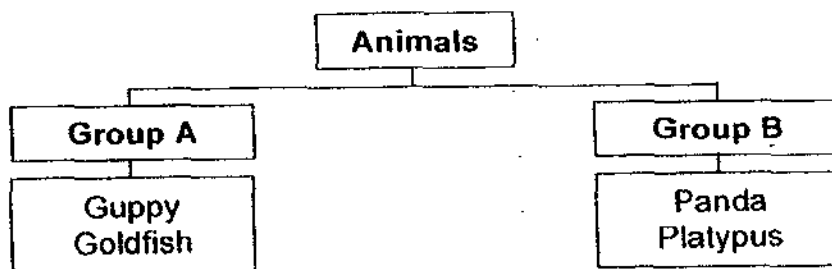
Look at the pictures of four animals below and answer Questions 15 and 16.



15. Which of the following best represents how the animals are grouped?

	Gives birth to young alive	Lays eggs
(1)	Guppy and Platypus	Panda and Goldfish
(2)	Panda and Goldfish	Guppy and Platypus
(3)	Platypus and Goldfish	Guppy and Panda
(4)	Guppy and Panda	Platypus and Goldfish

16. The four animals are then regrouped into another classification diagram as shown below.



What characteristic was used to group the animals?

	Group A	Group B
(1)	Have scales	Have hair
(2)	Does not have fins	Have fins
(3)	Can swim only	Can swim and walk
(4)	Eats plants and animals	Eats animals only

17. Look at the pictures below.



Leaf J



Leaf K

Jane, Mary and Sue observed leaves J and K as shown above. They each made a statement about the leaves.

Jane: Both leaves have the same edge.

Mary: Leaf J has a jagged edge but Leaf K has an entire edge.

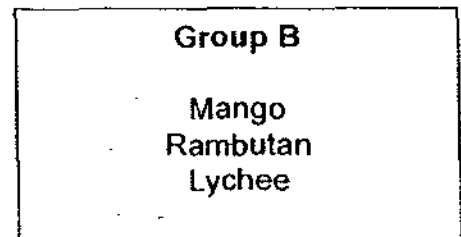
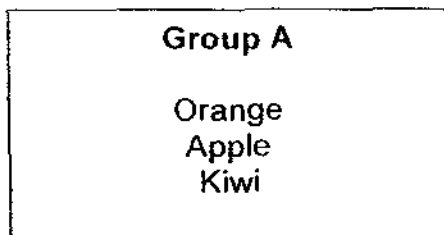
Sue : Leaf J has an oval shape but Leaf K has a heart shape.

Which of the following pupil(s) has/have made the correct statement(s)?

- (1) Jane only
- (2) Mary only
- (3) Jane and Mary only
- (4) Mary and Sue only

( )

18. Peter grouped some fruits into two groups.

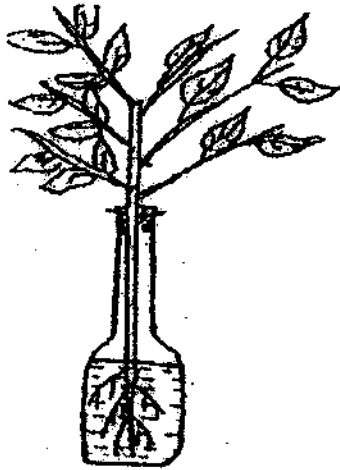


What characteristic has been used to group the above fruits?

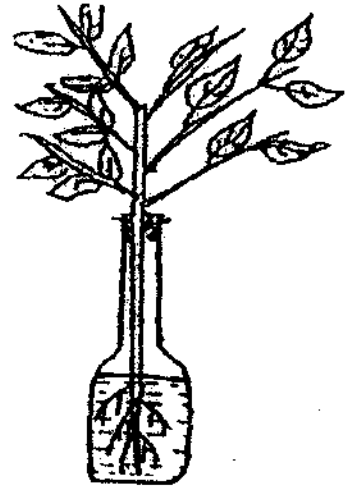
- (1) Shape
- (2) Colour
- (3) Texture
- (4) Number of seeds

( )

19. A live plant and a plastic plant were each placed into similar containers of water. There was 350ml of water in each container. A stopper was placed on each container.



Live plant



Plastic plant

The amount of water in each bottle was measured on the 12<sup>th</sup> day.  
Which one of the following sets of measurements is most likely to be correct?

Amount of water(ml) on the 12 <sup>th</sup> day	
Live plant	Plastic plant
(1) 300	300
(2) 350	350
(3) 300	350
(4) 350	300

( )

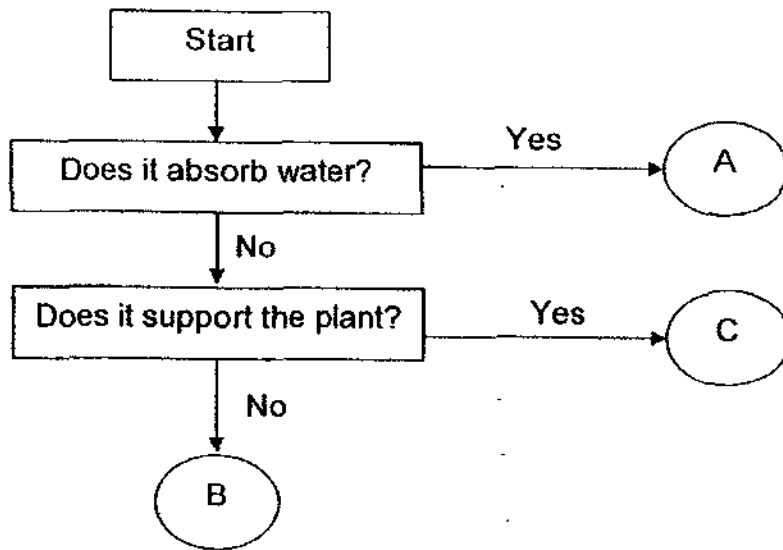
20. Which of the following plants can survive in a pond?

- A: duckweed
- B: hydrilla
- C: mimosa
- D: arrowhead

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

( )

21. The flowchart below describes the functions of different parts of a plant.

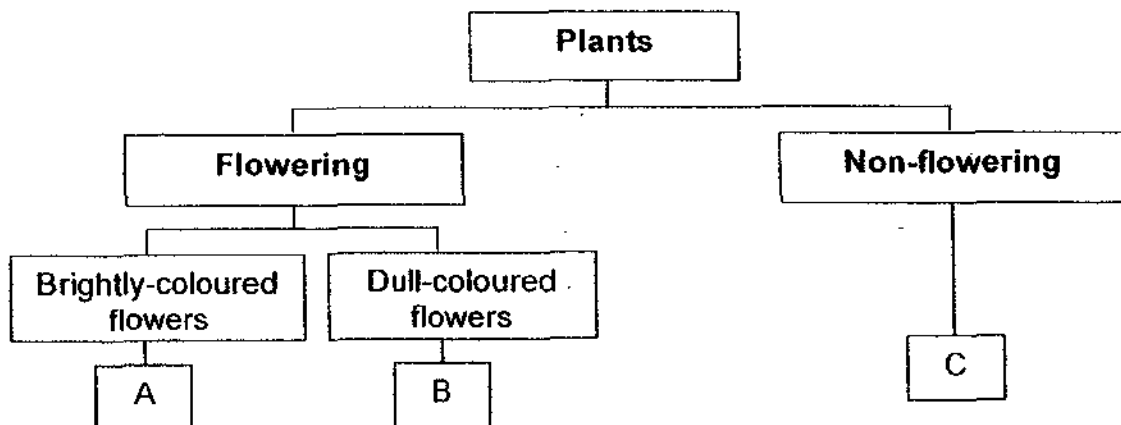


Which part of the following represents plant parts A, B and C?

	Part A	Part B	Part C
(1)	Stem	Leaves	Roots
(2)	Leaves	Stem	Roots
(3)	Roots	Stem	Leaves
(4)	Roots	Leaves	Stem

( )

22. Study the classification chart below.

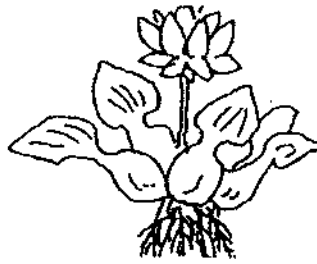


What could A, B and C be?

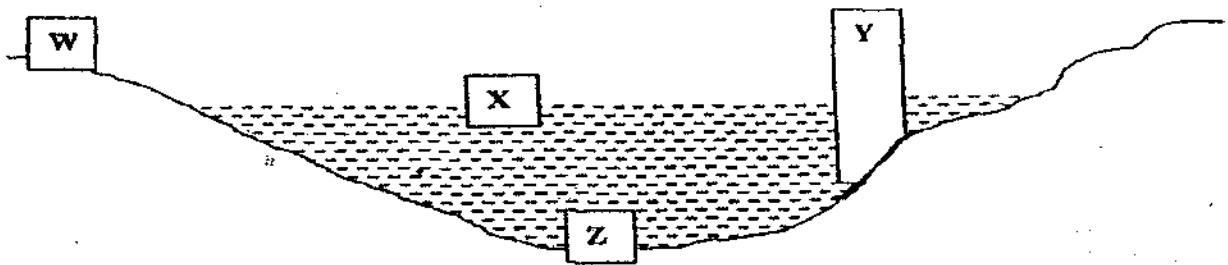
	A	B	C
(1)	Sunflower	Ixora	Grass
(2)	Jasmine	Rose	Coconut
(3)	Allamanda	Jasmine	Tree fern
(4)	Hibiscus	Frangipani	Rice plant

( )

23. Refer to the water hyacinth shown below.



Which positions W, X, Y and Z indicate the location of the water hyacinth in pond as shown below.



- (1) W
- (2) X
- (3) Y
- (4) Z

(       )

24. When Tina was asked to describe fungi, she made these statements.

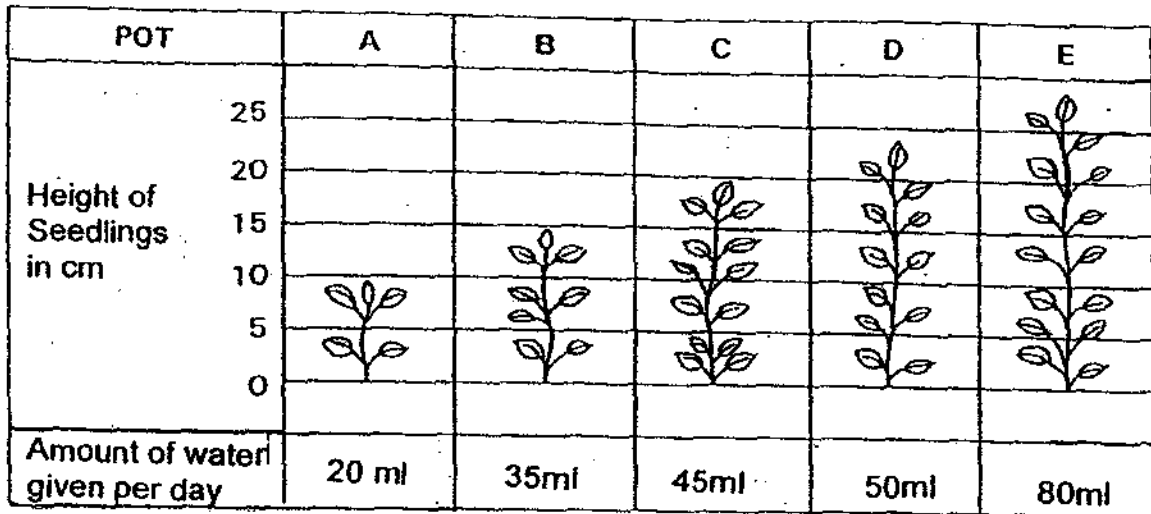
- A: Fungi such as yeast is harmful to human beings.
- B: Fungi are plants but they cannot make their own food
- C: Fungi such as mushrooms cannot make their own food.
- D: Some types of fungi can only be seen under a microscope.

Which of the four statements made about fungi are correct?

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

(       )

25. Jason planted five pots of string bean seedlings. He watered the pots daily with different amounts of water. The chart below shows the height the string bean seedlings grew to at the end of 4 weeks.



Based on the results, which one of the following statements is true about the growth of the string bean seedlings.

- (1) All the string bean seedlings grew to the same height.
- (2) The plants have thicker stems when more water is given.
- (3) The amount of water did not affect the growth of the string bean plant.
- (4) The more water the string bean seedlings received, the taller they grew.

( )

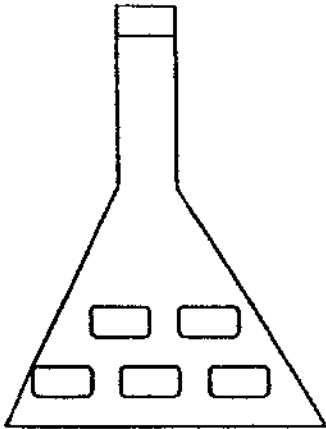
26. The picture below shows a mushroom. Identify the parts marked A, B and C.



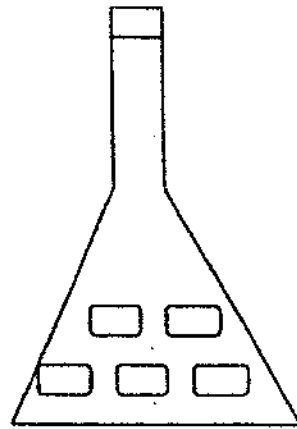
	A	B	C
(1)	cap	gills	stalk
(2)	cap	gills	stem
(3)	flower	mould	stalk
(4)	cover	fungi	stalk

( )

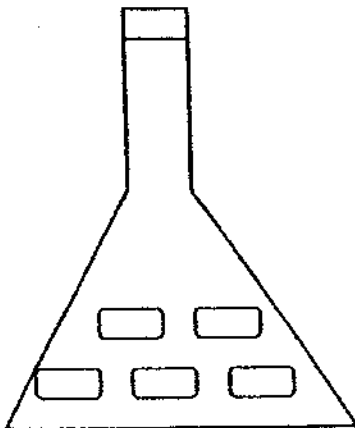
27. Joan placed four containers of cooked and uncooked macaroni in different containers as shown below.



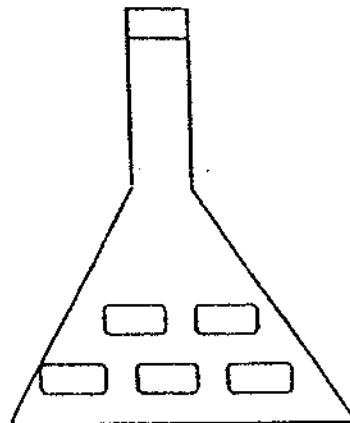
Container A  
cooked macaroni in refrigerator



Container B  
cooked macaroni in cupboard



Container C  
cooked macaroni in room temperature



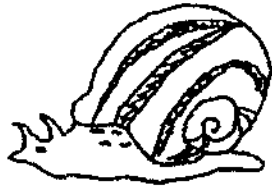
Container D  
uncooked macaroni in room temperature

In which of the four set-ups above do you think decomposition would have taken place after a few days.

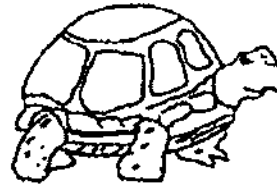
- (1) Container A and Container B
- (2) Container A and Container D
- (3) Container B and Container C
- (4) Container C and Container D

(      )

28. Look at the pictures below.



snail



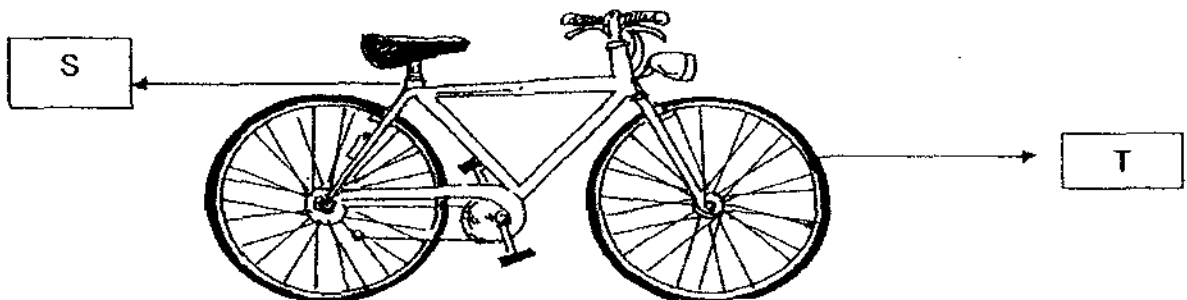
tortoise

Based only on the pictures above, which one of the following statements about the two animals are you most sure of?

- (1) The snail has no leg but the tortoise has four legs.
- (2) The snail feeds on plants but the tortoise eats small fish.
- (3) The snail takes care of its young but the tortoise does not.
- (4) The snail lays eggs in water but the tortoise lays them on land.

( )

29. What are the materials that are commonly used to make the parts labelled S and T respectively?



- (1) leather and metal
- (2) leather and rubber
- (3) metal and rubber
- (4) glass and leather

( )

30. Look at the objects below.  
Which of them are most probably made up of two materials?

A)



B)



C)



D)



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

(      )

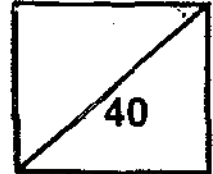
End of Booklet A



**Rosyth School**  
**First Semestral Assessment for 2009**  
**SCIENCE**  
**Primary 3**

Name: \_\_\_\_\_

Total  
Marks:



Class: Pr 3-\_\_\_\_\_ Register No. \_\_\_\_\_

Duration: 1 h 30 min

Date: 14 May 2009

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

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## **Booklet B**

Instructions to Pupils:

1. For questions 31 to 46, write your answers in the spaces given in this booklet.

\* This booklet consists of 12 pages.

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**BOOKLET B (40 MARKS)**

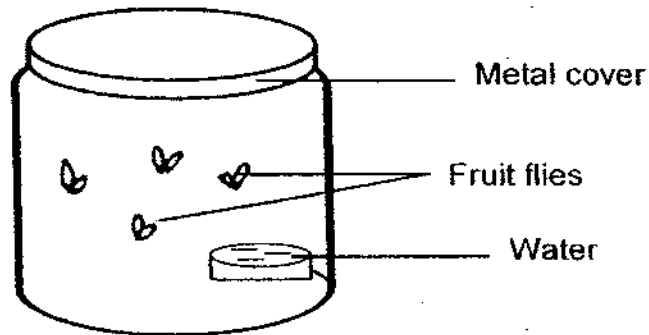
For questions 31 to 46, write your answers in this booklet.

31. Alice accidentally stepped on her cat's tail. Her cat gave out a loud mew and ran away. Which two characteristics of living things best describe the cat's behaviour? (2m)

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

32. David placed four fruit flies in a jar as shown below.



State two things that David should do to ensure that the fruit flies would be alive in the jar for sometime. (2m)

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

33. Roy kept some hamsters in his cage. He fed them daily with food and water. At the end of each month, he recorded the number of hamsters in the table below. No hamsters were added or taken out of the cage.

Month	Number of hamsters
January	2
March	4
May	7
July	11
September	9

- (a) From the table above, what do you observe about the number of hamsters between January to July? (1m)
- 
- (b) What could be the possible reason for your answer in (a)? (1m)
- 
- (c) What possible characteristic of living things could be observed from July to September? (1m)
- 
34. The table below shows some characteristics of four animals (A, B, C and D). The animals lived in a grassy area where they cannot escape. A tick (✓) shows the animal has the characteristic.

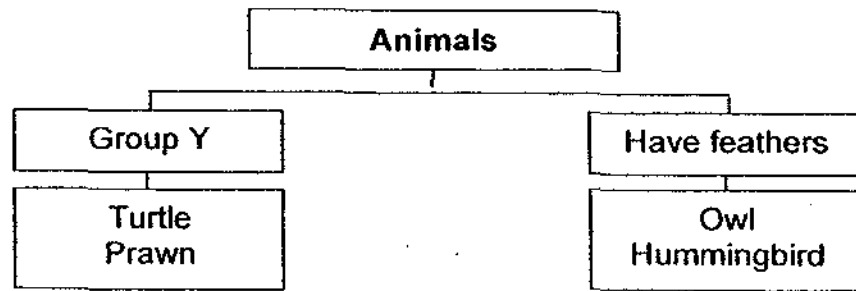
Animal	Lays eggs	Have hair	Eats plants only
A		✓	✓
B		✓	✓
C		✓	
D	✓		✓

- (a) From the information given in the table above, state one similarity between Animal B and Animal D. (1m)
- 

One day, Animal A was found to be eaten up by another animal.

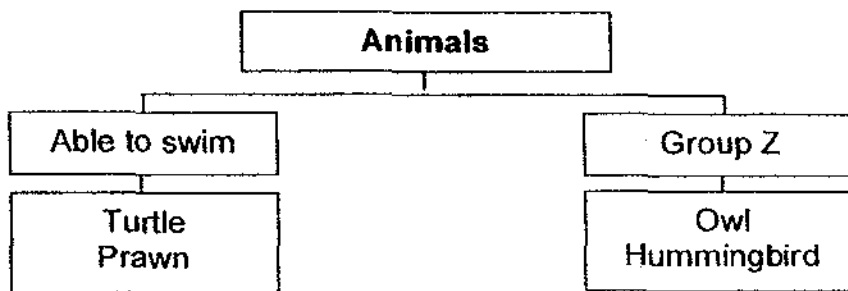
- (b) Which animal (B, C or D) would most likely to have eaten up Animal A? (1m)
-

35. Rani classified some animals as shown below.



Give a suitable heading for Group Y. (1m)

(a) Group Y: \_\_\_\_\_



(b) Give a suitable heading for Group Z. (1m)

\_\_\_\_\_

36. The table below shows some characteristics of Animal M and Animal N.

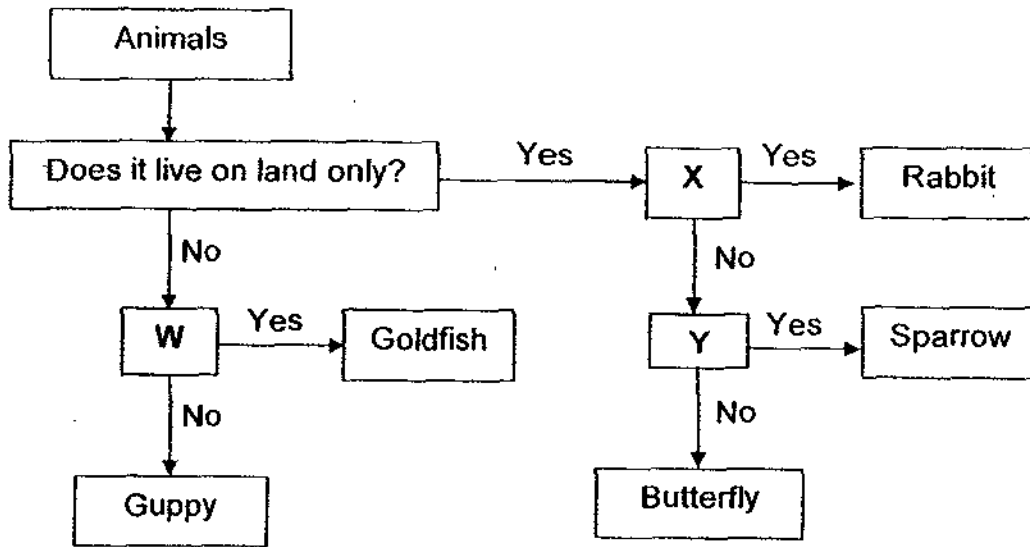
Characteristics of Animal M	Characteristics of Animal N
Has feathers	Has hair
Lays eggs	Gives birth to young alive
Eats plants only	Eats plants and animals
Lives on land	Lives on land and in water

(a) Based on the information shown in the table above, which animal (M or N) is most probably not a mammal? (1m)

(b) Which characteristic can definitely support your choice in (a)? (1m)

\_\_\_\_\_

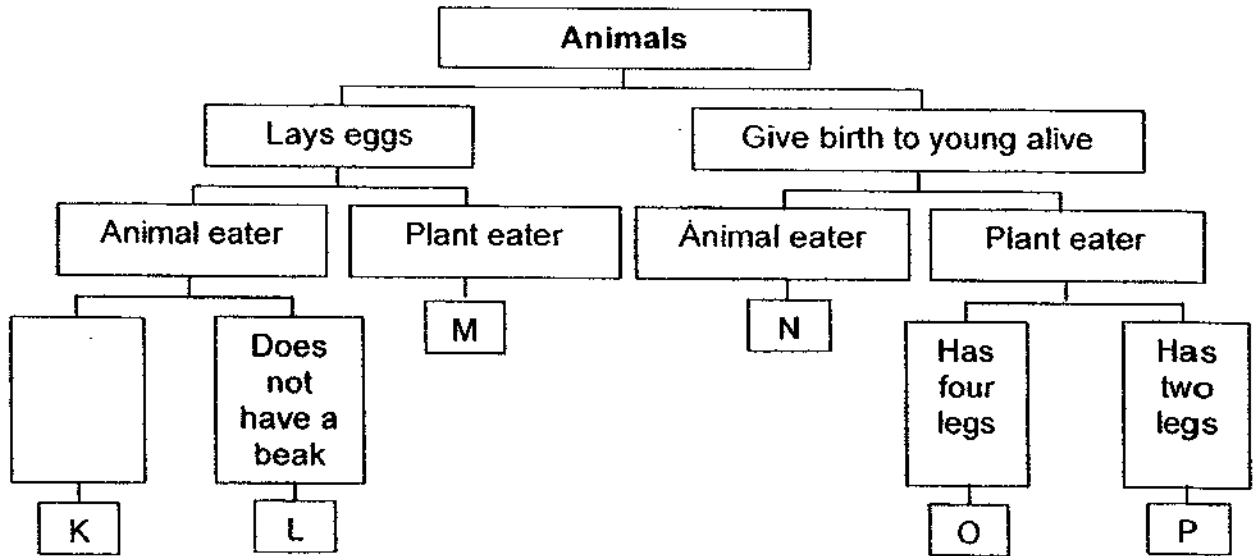
37. Study the flowchart below.



The letters W, X and Y represent questions that classify the animals. Write the correct letter that represents the question in the boxes given. Each letter can only be used once. (3m)

Question	Letter
Can it fly?	
Can it swim?	
Does it have feathers?	
Does it have scales?	
Does it lay eggs?	
Does it give birth to its young alive?	

38. Study the classification diagram below.



(a) Using information from the classification diagram above only, describe two characteristics of Animal M. (1m)

---



---

(b) Write the letter (K, L, M, N, O or P) that best represents the following animals in the given boxes. (1m)

(i) Eagle

O

(ii) Tiger

P

(c) Based on the information given in the classification diagram, state one similarity and one difference between Animal O and Animal P. (2m)

Similarity: \_\_\_\_\_

Difference: \_\_\_\_\_

39. The table below shows two groups of animals.

Group 1
<del>turkey</del> <del>goldfish</del> <del>spiny anteater</del>

Group 2
<del>cat</del> <del>horse</del> <del>guppy</del>

(a) How are the animals in Group 1 different from those in Group 2? (1m)

---



---

(b) Regroup the animals in Group 1 and Group 2 into mammals, fishes and birds. (1m)

Mammal	Fish	Bird

40. Two scientists found a strange animal as described below.

This animal has scales on its body. It produces milk. It breathes through its gills and lays eggs.

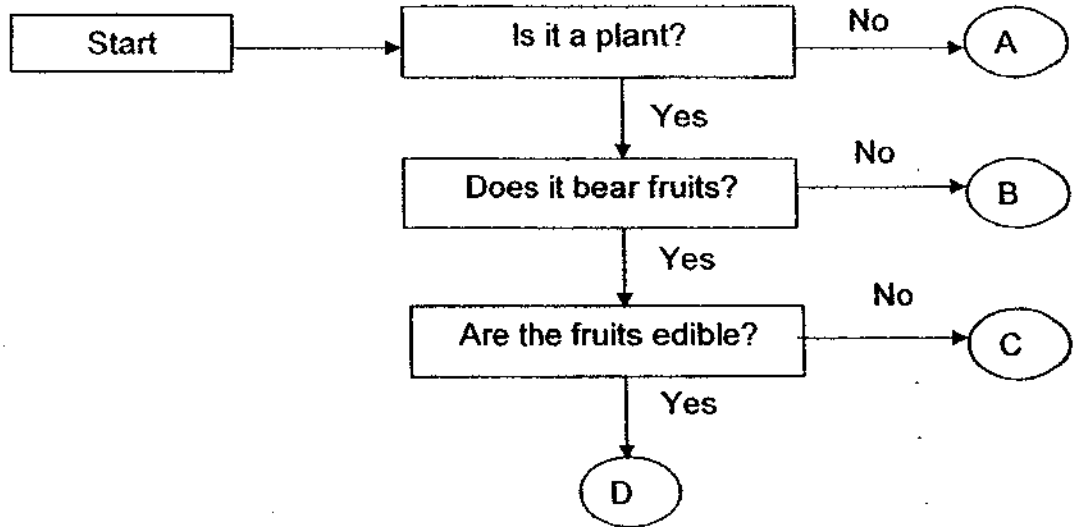
(a) One scientist thinks it is a mammal. What makes him think so? (1m)

---

(b) Another scientist thinks it is not a mammal. Why? (1m)

---

41. Study the flow chart below carefully.



(a) Using the flow chart, which letter best, represents the things listed below? (1m)

(i) Mushroom: \_\_\_\_\_

(ii) Pong Pong tree: \_\_\_\_\_

(b) State one way in which C is similar to D. (1m)

\_\_\_\_\_

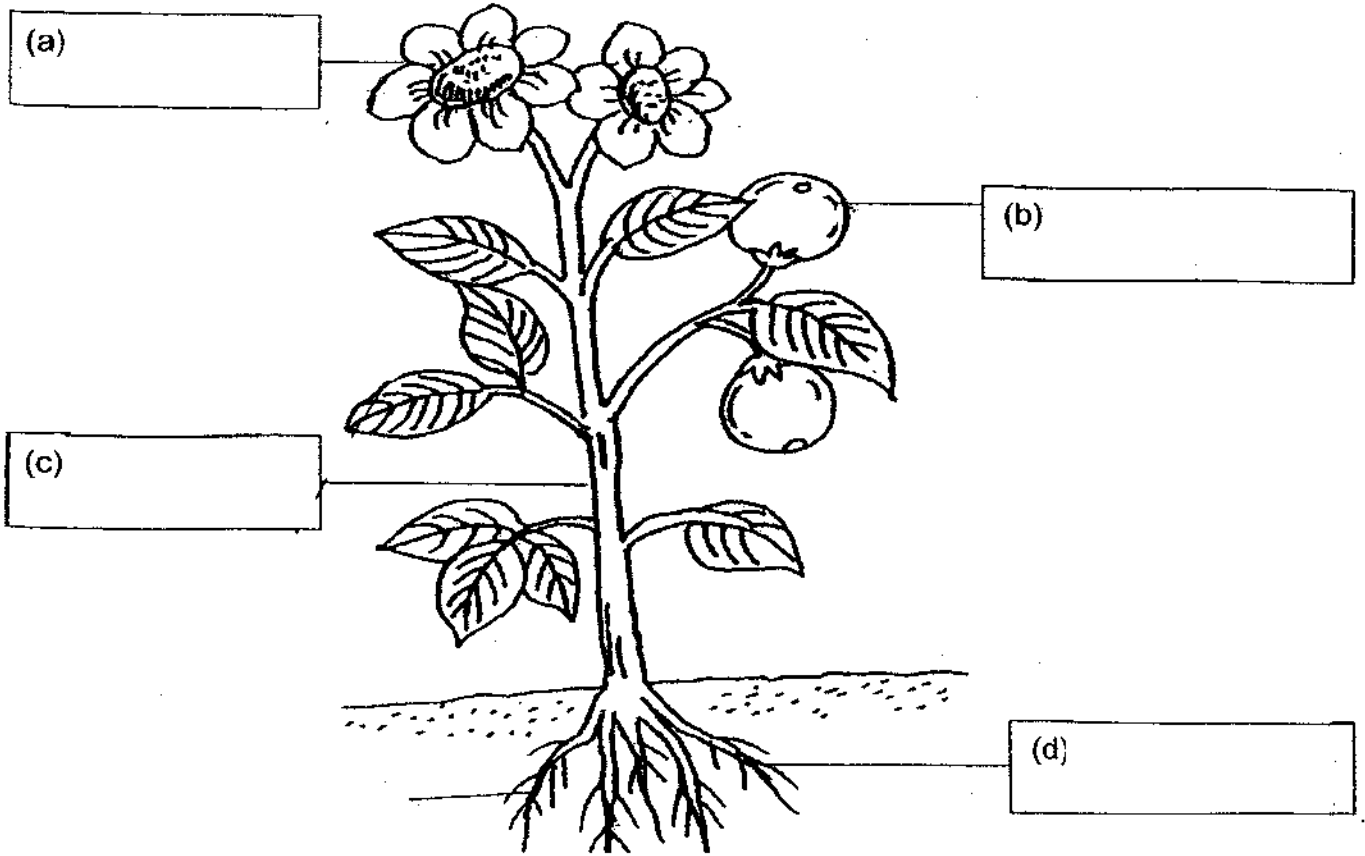
\_\_\_\_\_

(c) State one way in which B is different from C. (1m)

\_\_\_\_\_

\_\_\_\_\_

42. Label the parts of the plant in the box provided. (4m)



43. Hassan has two plants as shown below.



**Plant G**



**Plant H**

(a) Based on the pictures of plants G and H,

(i) state the difference between the two flowers (1m)

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(ii) state the difference between the two leaves (1m)

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Hassan observed that plant G grew well on a fence.

(b) Explain why plant G needs a fence to grow well. (1m)

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44. Aida wrote the following statements in her notebook.

**Statement P:** If I see my hands are clean, it means there are no bacteria present on them.

**Statement Q:** All bacteria are harmful to people.

Explain why the two statements, P and Q, made by Aida are incorrect. (2m)

Statement P:

---

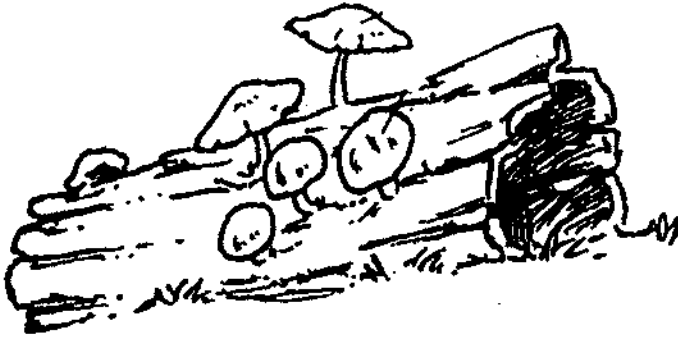
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Statement Q:

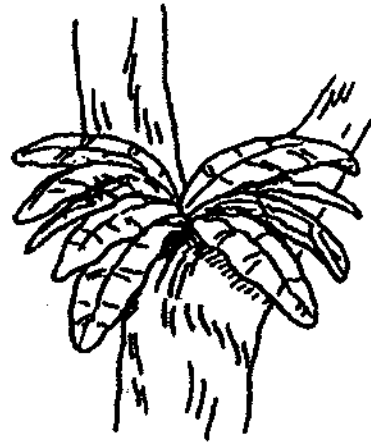
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45. Refer to the fungi and the fern shown below.



Fungi growing on a dead log



Fern growing on a tree

(a) How do the fungi and the fern in the pictures above obtain food? (1m)

Fungi: \_\_\_\_\_

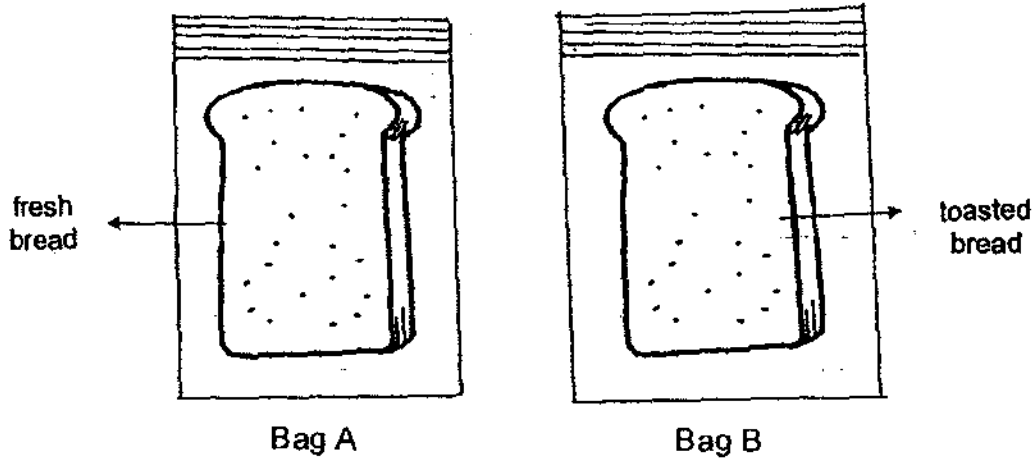
Fern: \_\_\_\_\_

(b) How do a fungi and fern reproduce? (1m)

Fungi: \_\_\_\_\_

Fern: \_\_\_\_\_

46. In an experiment, Tom placed a piece of fresh bread which he had sprinkled with some water into a sealed plastic bag. He labelled this bag as Bag A. He also placed a piece of toasted bread into another sealed plastic bag. He labelled this bag as Bag B.



After a few days, he observed the bread in Bag A and Bag B.

- (a) What do you think would be Tom's most likely observation? (1m)

Bag A: \_\_\_\_\_  
\_\_\_\_\_

Bag B: \_\_\_\_\_  
\_\_\_\_\_

- (b) What does this observation indicate about the conditions for the growth of mould? (1m)

\_\_\_\_\_  
\_\_\_\_\_

End of Paper

# ANSWER SHEET

**EXAM PAPER 2009**

**SCHOOL : ROSYTH PRIMARY  
SUBJECT : PRIMARY 3 SCIENCE**

**TERM : SA1**

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

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

31)i)The cat had just respond to change.  
ii)Living things can move by themselves.

32)i)He should have cut some holes on the metal cover.  
ii)He should have given them some food.

33)a)The number of hamsters are increasing.  
b)The hamsters had reproduced.  
c)Some hamsters had died.

34)a)Animal B and Animal D eats plants only.  
b)Animal C had eaten up Animal A.

35)a)have shell.  
b)Able to fly.

36)a)Animal M.  
b)Has feathers.

37)Does it have feathers?----Y  
Does it lay eggs-----W  
Does it give birth to its young alive-----X

38)a)Animal M is a plant eaten that lay eggs.

b)i)K ii)N

c)Similarity: They both have four legs.

Difference: Animal O has 4 legs while Animal P has 2 legs.

39)a)Group 1 lays eggs while Group 2 gives birth to their young alive.

b)Mammal

spiny anteater

cat

horse

Fish

goldfish

guppy

Bird

turkey

40)a)It produces milk.

b)It is because it has scales on his bodies.

41)a)i)A ii)C

b)They both bear fruits.

c)B does not bear fruits but C does bear fruits.

42)a)flower

b)fruit

c)stem

d)roots

43)a)i)Plant G flowers grows singly while Plant H flowers grows in clusters.

ii)Plant G leaves are lobbed edge while Plant H leaves are entire edge.

b)Plant G is weak stem.

44)P: Bacteria are very small we cannot see with our naked eyes we need a microscope to see it.

Q: Not all bacteria are harmful to people, yeast is fungi but they it is not harmful to people.

45)a)Fungi: Fungi do not make their own food themselves eat animals who are died or alive.

Fern: They make their own food.

b)Fungi: Fungi reproduce by spores.

Fern: spores.

46)a)A: There will be some mould.

B: Nothing will happen.

b)The mould grow when the bread get wet.