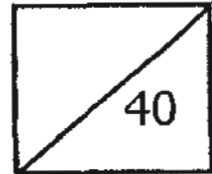




**Rosyth School**  
**Topical Test for 2010**  
**SCIENCE**  
**Primary 3**



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

Total  
Marks:

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

Date: 4<sup>th</sup> March 2010 Parent's Signature: \_\_\_\_\_

Instructions to Pupils:

1. Do not open the booklet until you are told to do so.
2. Follow all instructions carefully.
3. This paper consists of 2 sections, Part I and Part II.
4. For questions 1 to 10, write the correct answer in the brackets provided.
5. For questions 11 to 17, give your answers in the spaces provided in Part II.

	<b>Maximum</b>	<b>Marks Obtained</b>
<b>Part I</b>	<b>20 marks</b>	
<b>Part II</b>	<b>20 marks</b>	
<b>Total</b>	<b>40 marks</b>	

\* This booklet consists of 14 pages. (pg. 1 to 14)

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**Part 1 (20 MARKS)**

For each question from 1 to 10, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Write the correct answer in the brackets provided.

1. Which one of the following groups consists of only living things?

- (1) bird, fire, cactus plant, cat
- (2) ants, robot, cat, centipede
- (3) money plant, water, rooster, rabbit
- (4) butterfly, mango tree, dragonfly, rose plant

( )

2. John made the following observation about his sister.

When my sister sees a cockroach in the room, she screams and jumps until someone kills it.

Based on the above observation only, which characteristics of living things does John's sister show?

- X: She can grow.
- Y: She can respond to changes.
- Z: She can move about on her own.

- (1) X and Y only
- (2) X and Z only
- (3) Y and Z only
- (4) X, Y and Z

( )

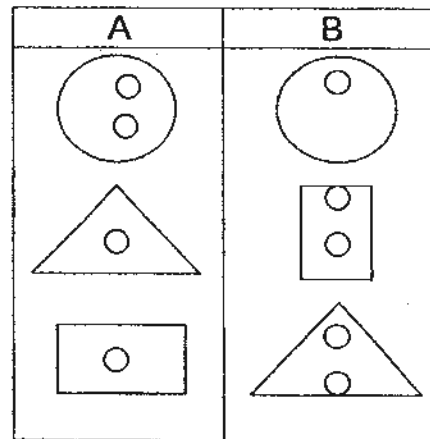
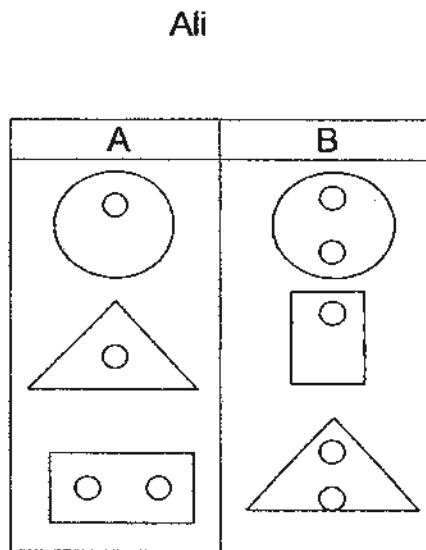
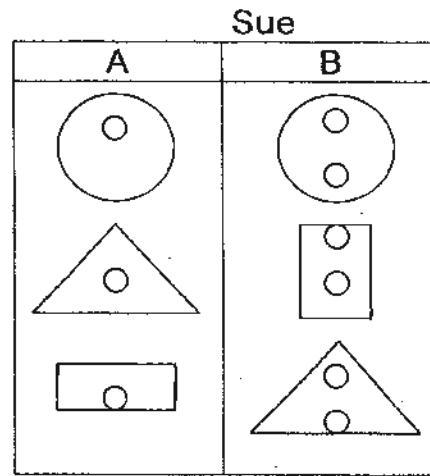
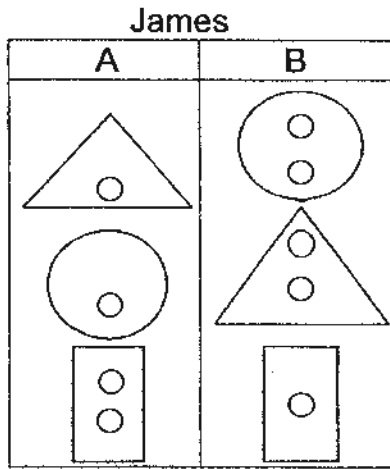
3. Study the classification table below carefully.

Things	
J	K
sea	tadpoles
rocks	frogs
clouds	toads

Which of the following correctly represents J and K?

	J	K
(1)	can grow	cannot grow
(2)	can die	cannot die
(3)	can reproduce	cannot reproduce
(4)	cannot move by themselves	can move by themselves

4. Four children classified some buttons in different ways as shown below.



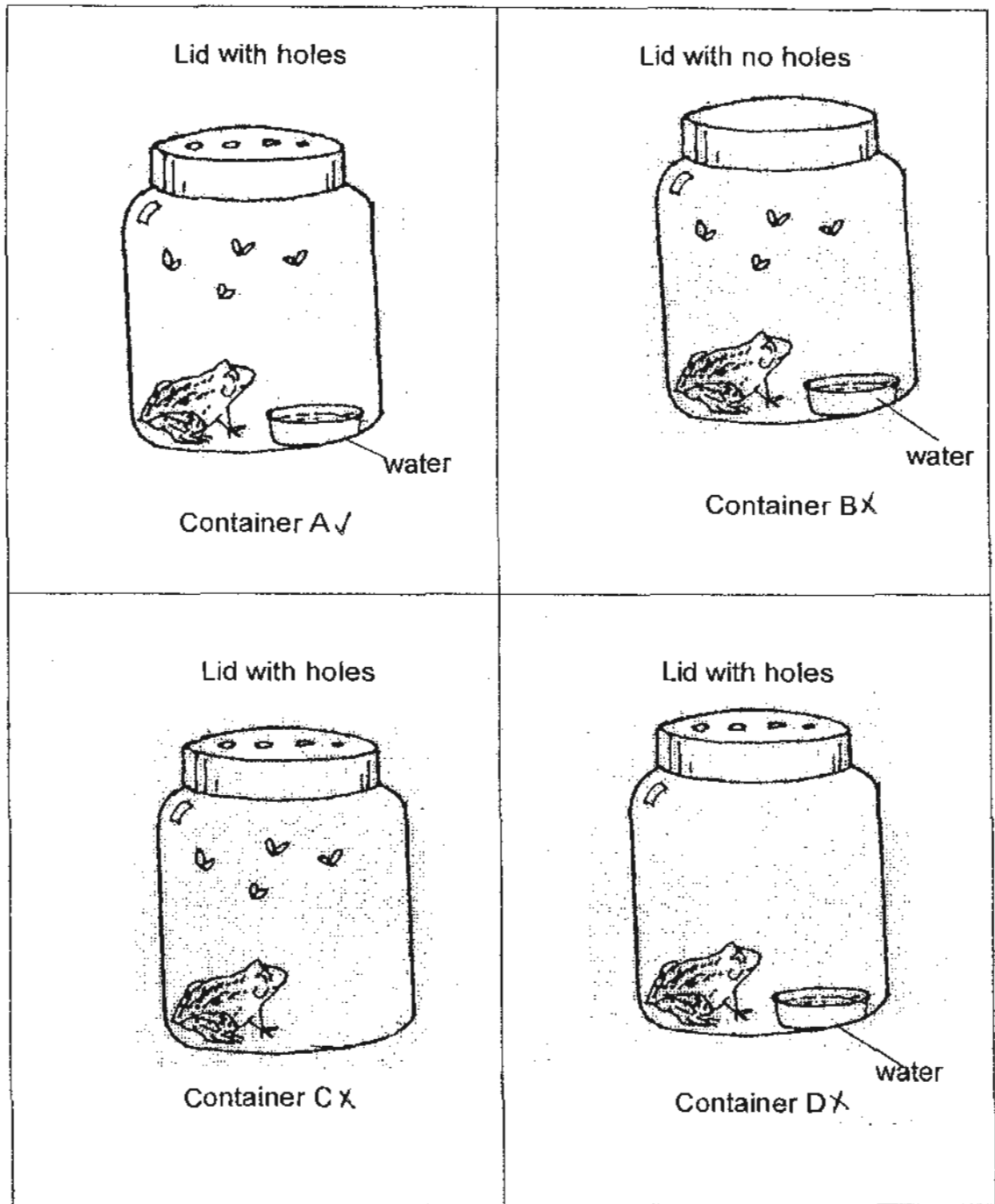
Who has classified the buttons correctly?

- (1) James
- (3) Ali

- (2) Sue
- (4) Muthu

(     )

5. Mary observed the toads in all the containers A, B, C and D separately for one week.



Which of the toads would most likely not survive after one week?

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

( )

6. The diagram below shows Leaf A and Leaf B.



Leaf A



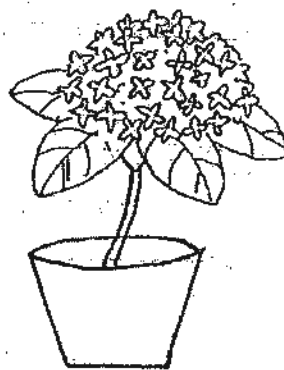
Leaf B

From what you observe in the diagram, which one of the following comparisons between the two leaves is correct?

- (1) Leaf A and Leaf B are entire-edged.
- (2) Leaf A is round while Leaf B is heart-shaped.
- (3) Leaf A is lobed-edge while Leaf B is jagged-edged.
- (4) Leaf A is lance-shaped while Leaf B is heart-shaped.

7. Study the table and answer the question below. ( )

Plants	A	B	C	D
Flowering Plants	√	√	√	×
Flowers grow in clusters	×	√	√	×
Flowers grow singly	√	×	×	×
Plants that grow on land	√	×	√	√

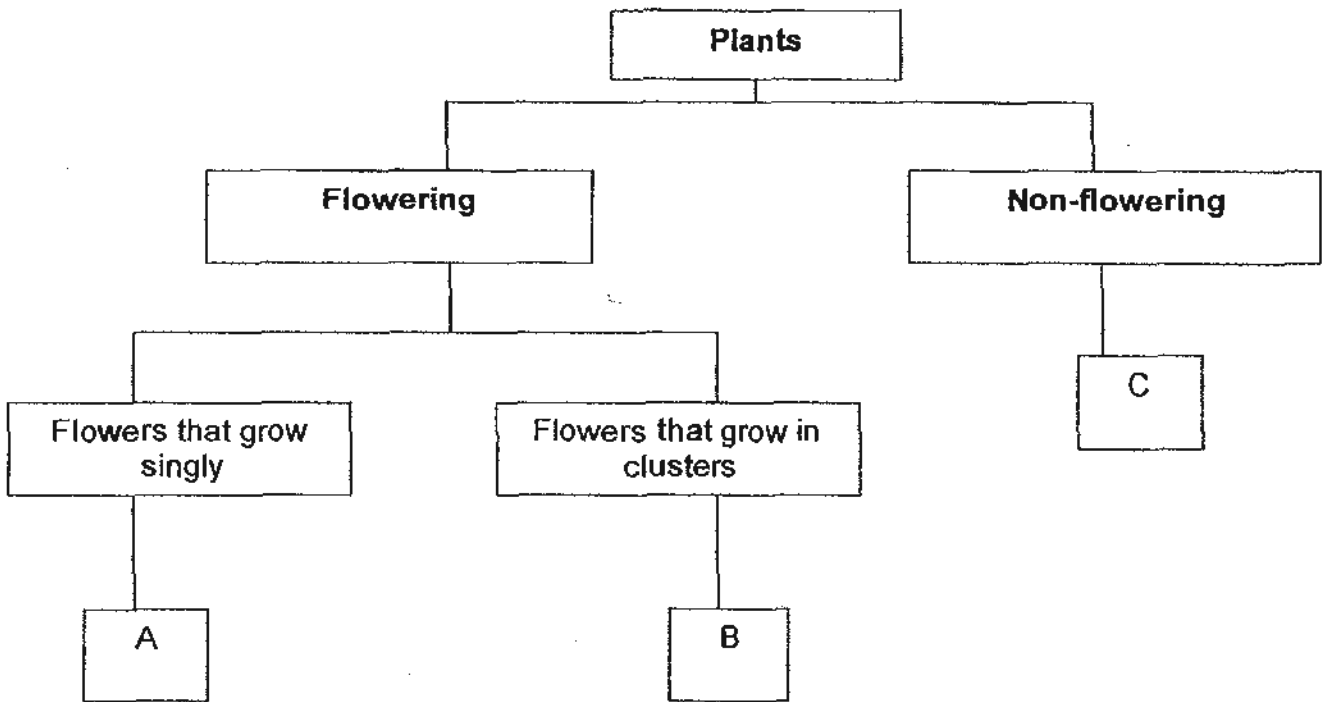


In which group (A, B, C or D) can the above plant be placed?

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

( )

8. Study the classification diagram below.



Which of the following could A, B or C be respectively?

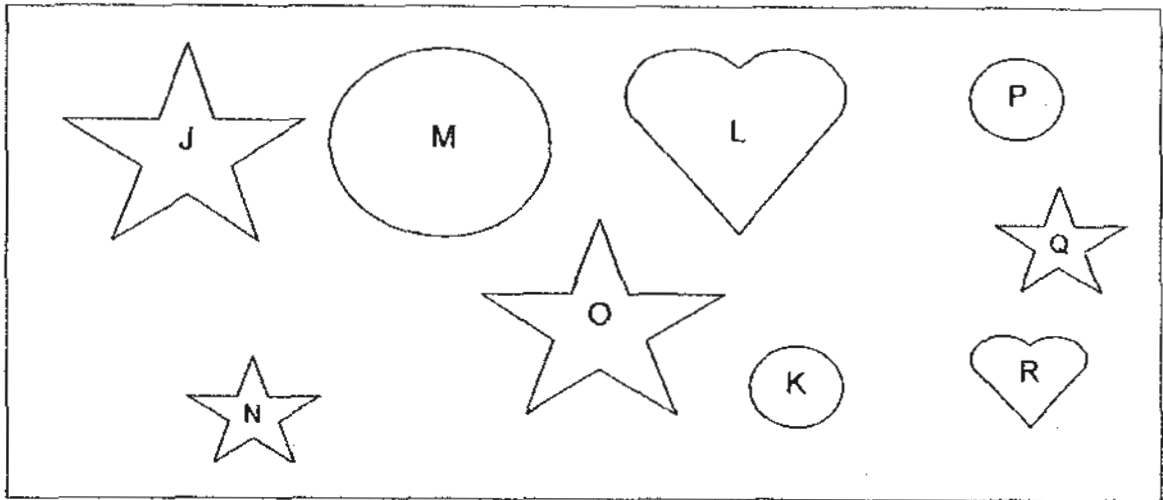
	A	B	C
(1)	Stag horn fern	Hibiscus	Jasmine
(2)	Frangipani	Jasmine	Tree fern
(3)	Water Lily	Frangipani	Bird's nest fern
(4)	Jasmine	Tree fern	Water Lily



**Part II (20 MARKS)**

For questions 11 to 17, write your answers in the blanks provided.

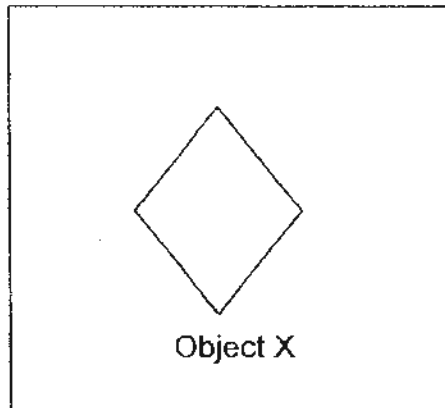
11. Look at the objects in the box below.



- (a) If Sally were to classify the 9 objects in the box into three groups only, what characteristic should she use? (1 mark)

---

Now Sally added another object, Object X as shown in the box below.



- (b) Which property will you use to classify all the 10 objects into two groups only? (1 mark)

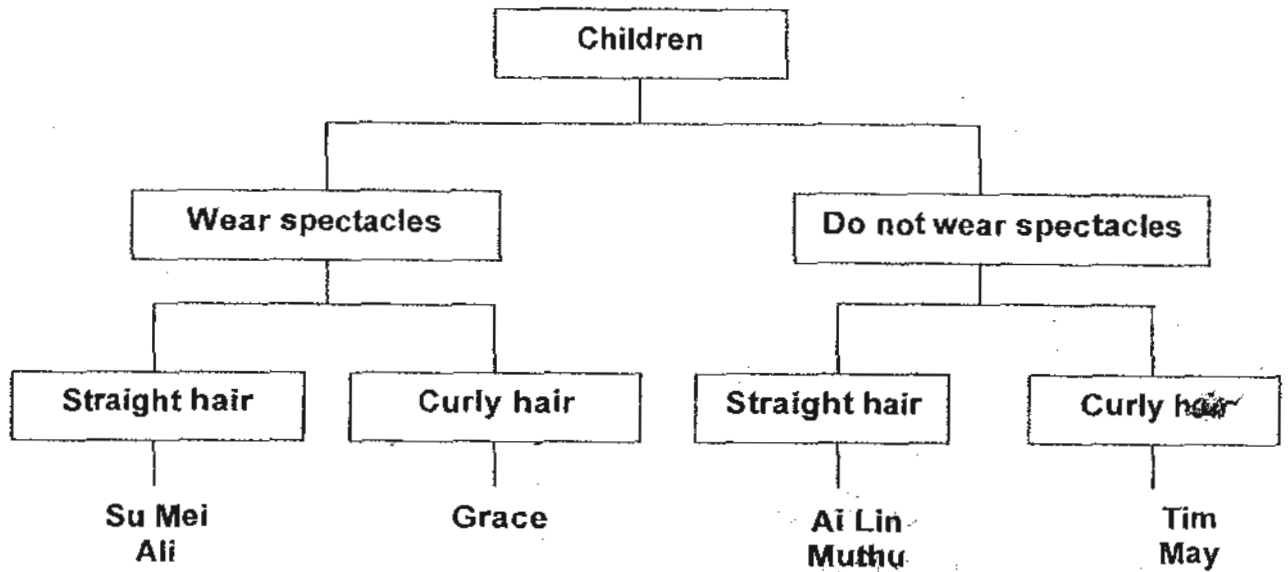
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- (c) Using the characteristic you have identified in part (b), classify all the objects into two groups only (your classification should include Object X). Write a heading for each group. Use the labels to group the objects. (1 mark)


12. Study the classification below.



(a) State one similarity between Ali and Muthu. (1 mark)

---

(b) Write down two differences between Su Mei and May. (2 marks)

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13. Farmer Jones kept some rabbits in a metal-wire cage. He fed them daily with food and water. At the end of every three months, he recorded the number of rabbits he had as shown in the table below. No rabbits were added or taken out of the cage.

Month	Number of rabbits
January	6
April	8
July	12
October	7

- (a) From the table above, what do you observe about the number of rabbits between January to July?(1 mark)

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- (b) What could be a possible reason for the change in the number of rabbits between January to July?(1 mark)

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- (c) What possible characteristic of living things could be observed from July to October? (1 mark)

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- (d) In December, Farmer Jones noticed some foxes on his farm. He then decided to transfer the rabbits from the metal-wire cage to a fully-sealed plastic cage without any openings. Do you think this is a good idea? Explain your answer. (1 mark)

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14. Roy was walking about in the garden when he saw a millipede in the soil. He then used a stick to poke it and the millipede curled up.

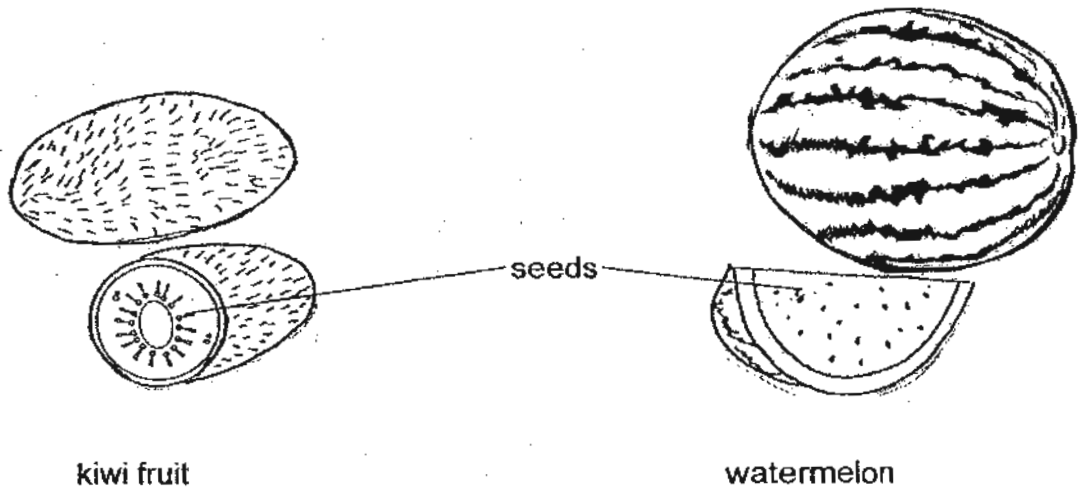
(a) Which possible characteristic of living things can be observed from the millipede's reaction? (1 mark)

\_\_\_\_\_

(b) Why does the millipede react in this way? (1 mark)

\_\_\_\_\_

15. Refer to the pictures of the two fruits shown below.



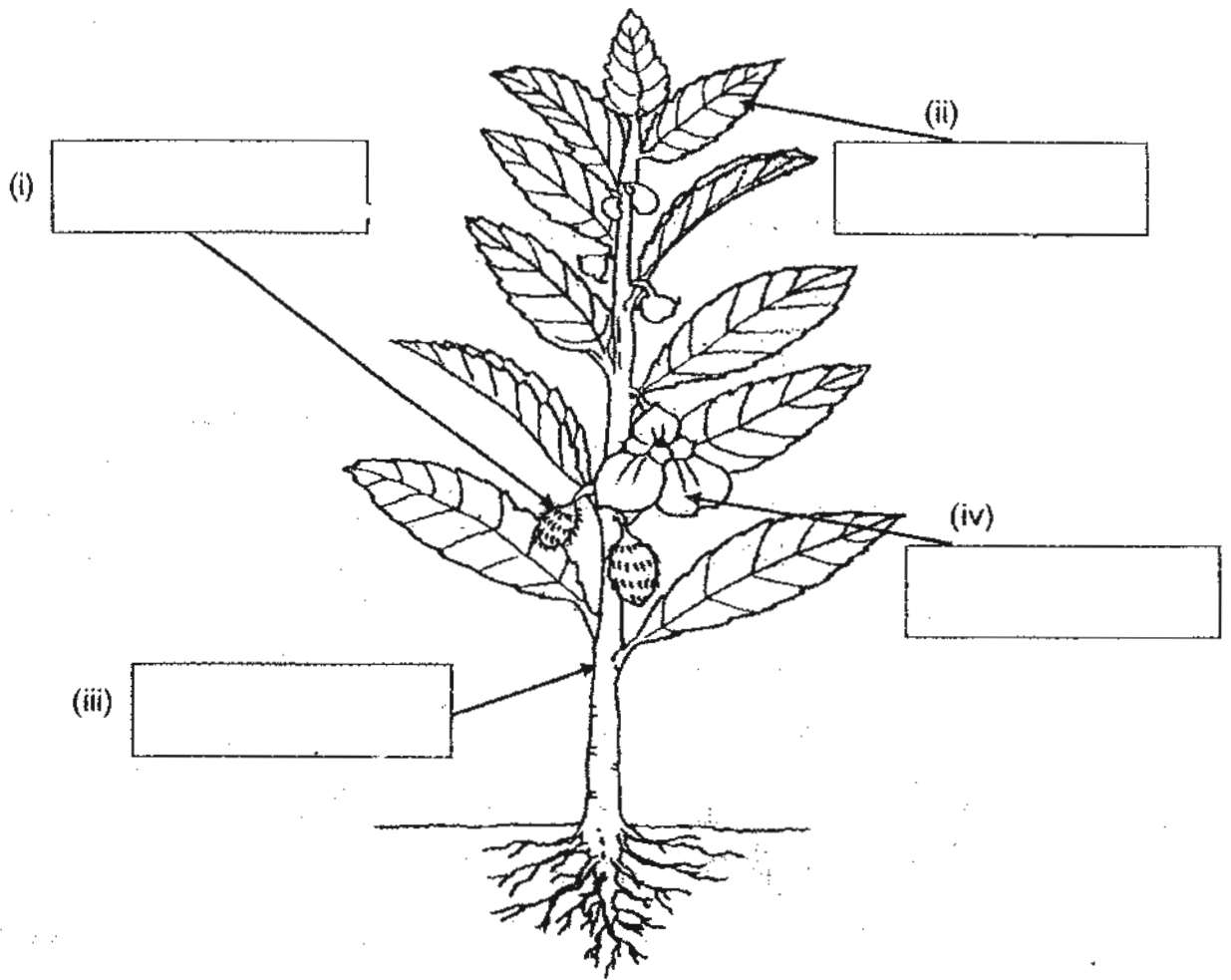
Write down one similarity and one difference between the kiwi fruit and the watermelon. (2 marks)

**(Do not compare their shapes, sizes or colours.)**

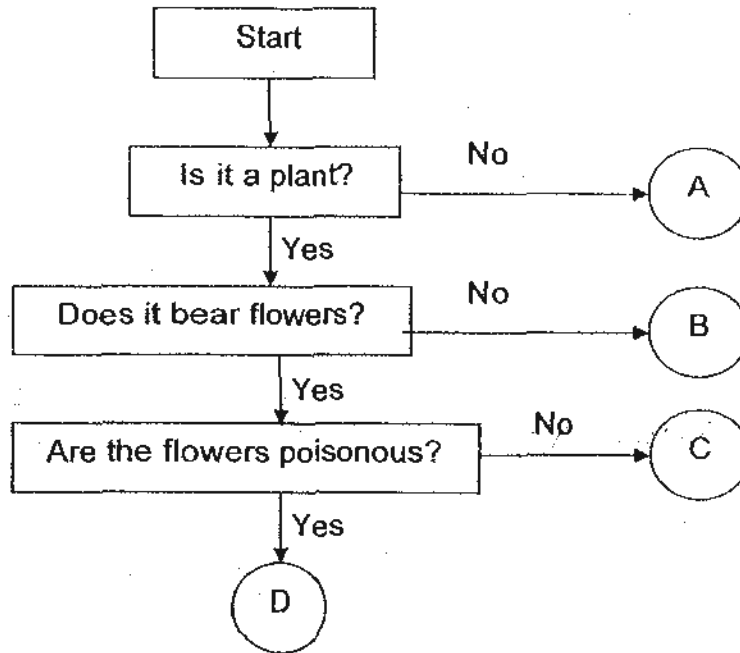
Similarity : \_\_\_\_\_  
\_\_\_\_\_

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

16. Label the parts of the balsam plant shown below in the boxes provided.  
(2 marks)



17. Study the flow chart below carefully.



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

(i) Moss : \_\_\_\_\_

(ii) Parrot : \_\_\_\_\_

(b) Based on the flowchart, in what way is A different from B? (1 mark)

\_\_\_\_\_

(c) Based on the flowchart, in what way is C and D similar? (1 mark)

\_\_\_\_\_

(d) Jack's sister was in the garden plucking flowers. About one hour later, her hands felt itchy and she was scratching them. Which plant(B,C or D) do you think could have caused her to feel this way? Explain your answer. (1 mark)

\_\_\_\_\_

\_\_\_\_\_

End of Paper

# ANSWER SHEET

**EXAM PAPER 2010**

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

**TERM : CA1**

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	3	4	2	3	4	3	3	3	3

11a) Sally should classify them by shapes.

11b) Size

11c)

Small object	Big object
Object Q Object N Object K Object P Object R	Object J Object M Object X Object L Object O

12a) Ali and Mathu have straight hair.

12bi) Su Mei has straight hair but Mary have curly hair.

12bii) Su Mei wears spectacles but May does not.

13a) The number of rabbits increased.

13b) They reproduced.

13c) Living things can die.

13d) No. The rabbits need air.

14a) Living thing respond to changes.

14b) It protected itself.

**15) Similarity: They are edible.**

**Difference: The kiwi have hair but a watermelon do not have.**

**16i) fruit**

**16ii) leaf , leaves**

**16iii) stem**

**16iv) flower**

**17ai) B**

**17aii) A**

**17b) A is not a plant but B is a plant.**

**17c) C and D bear flowers.**

**17d) Plant D. It is a poisonous plant.**