

**SINGAPORE CHINESE GIRLS' SCHOOL
FIRST SEMESTRAL ASSESSMENT 2005
PRIMARY 3
SCIENCE**

Name: _____

Date: _____

Class: Primary 3

Duration: 1h 30min

Part I (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). Shade the correct oval (1, 2, 3 or 4) in the Optical Answer Sheet.

1. Look at the objects shown below.



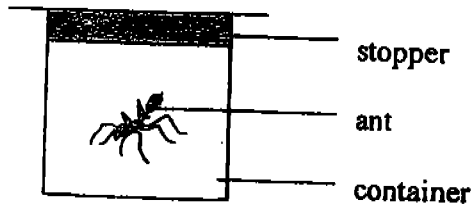
Which one of the following statements is true about all of the above objects?

- (1) They can grow.
 (2) They can reproduce.
 (3) They can move by themselves.
 (4) They do not need air, food and water.
2. Which one of the following non-living things is made from materials that were once alive?
- (1) Leather handbag (3) Water bottle
 (2) Refrigerator (4) Water pipe
3. Which one of the following does NOT belong to the same group as the other objects?
- (1) Book (3) Keychain
 (2) Fur coat (4) T-shirt

4. Sunlight is essential for the growth of a _____.

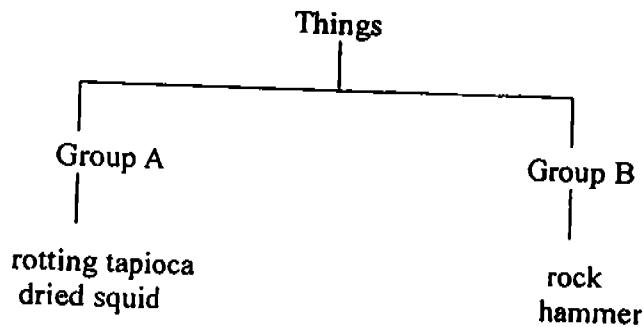
- (1) girl
- (2) goat
- (3) peacock
- (4) plant

5. What will happen to the ant in the container shown below after a week?



- (1) It will die.
- (2) It will grow.
- (3) It will reproduce.
- (4) It will remain alive.

6. Study the classification diagram below.



Which one of the following things can be classified under Group A?

- (1) coin
- (2) housefly
- (3) plastic flower
- (4) uprooted tree

7. The cat, the lion, and the panther are similar in _____.

- (1) colour
- (2) weight
- (3) shape
- (4) size

8. Look at the animals below.



What is one similarity between these animals?

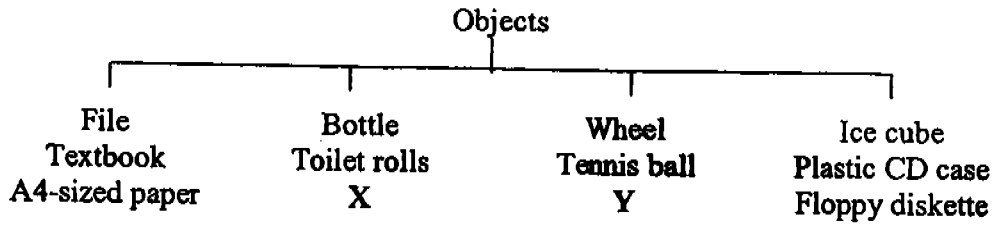
- (1) Both lay eggs.
 - (2) Both have four legs.
 - (3) Both are plant eaters.
 - (4) Both move by running.
9. Study the table below.

Group A	Group B
Ball	Window pane
Tyre	Radio
Ping pong ball	Bus

Which one of the following sets of headings for Group A and B is correct?

	Group A	Group B
(1)	Small	Large
(2)	Large	Round
(3)	Small	Rectangular
(4)	Round	Rectangular

10. Study the classification diagram below.



Which of these items can be X and Y?

	X	Y
(1)	Straw	Ruler
(2)	Ruler	Gas Cylinder
(3)	Orange	Straw
(4)	Gas Cylinder	Orange

11. _____ and _____ can be found at the seashore.

- A. Carps
- B. Crabs
- C. Frogs
- D. Shells

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

12. Which of the following animals are covered with scales?



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

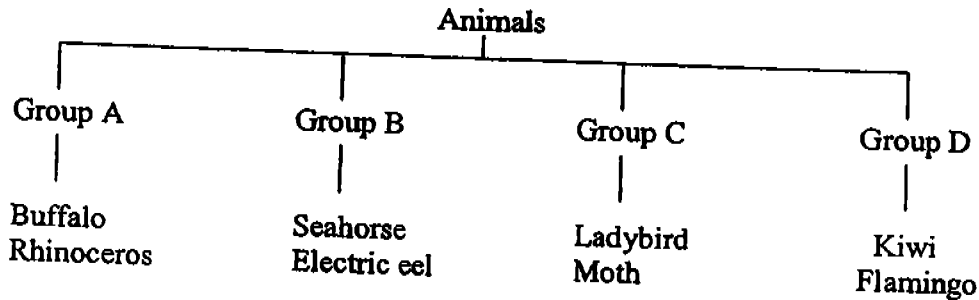
13. Which one of the following statements about mammals is false?

- (1) All mammals breathe through lungs.
- (2) All mammals give birth to their young.
- (3) All mammals have hair on their bodies.
- (4) All mammals feed their young with the mother's milk.

14. _____ and _____ are birds that cannot fly.

- (1) Ostrich, parakeet
- (2) Penguin, kingfisher
- (3) Emu, barn owl
- (4) Ostrich, emu

Study the classification diagram below and answer questions 15 and 16.



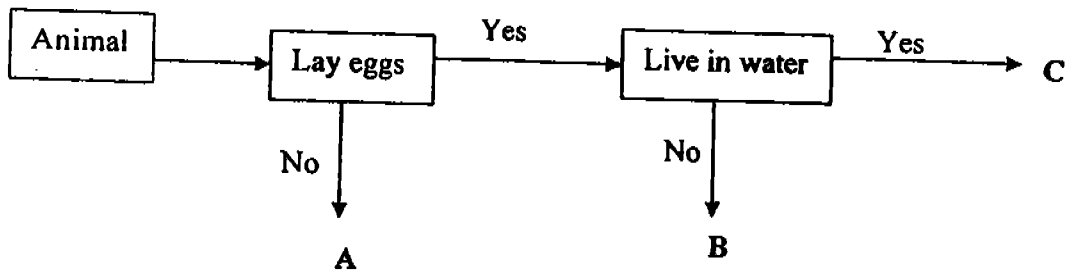
15. The animals are grouped according to _____

- (1) how they move
- (2) what they feed on
- (3) where they are found
- (4) what their body coverings are

16. In which group does a guppy belong to?

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

17. Study the flowchart below.



Which one of the following sets of animals represents the letters A, B and C correctly?

	A	B	C
(1)	Guppy	Seal	Mynah
(2)	Swordtail	Angelfish	Sparrow
(3)	Dolphin	Flamingo	Seahorse
(4)	Chicken	Platypus	Seahorse

18. Study the list of plants given below.

water lily	hibiscus	allamanda	pong pong
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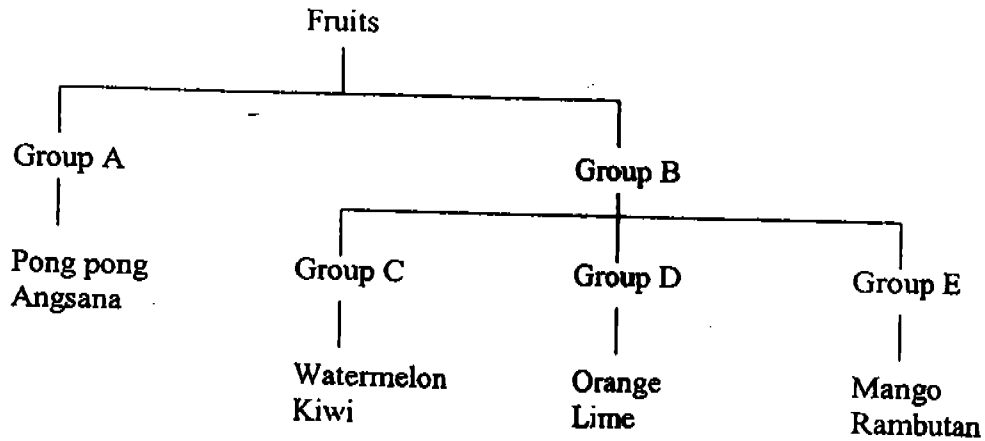
All of them are _____ plants.

- (1) land
- (2) water
- (3) flowering
- (4) non-flowering

19. Which one of the following statements about plants is false?

- (1) Plants grow in different places.
- (2) Plants can make their own food.
- (3) Plants need air, food and water to grow.
- (4) Roots of plants are always underground.

Study the classification diagram below and answer questions 20 and 21.



20. Dragon fruit should be classified under _____.
- (1) Group A (3) Group C
 (2) Group D (4) Group E
21. Which one of the following fruits can be classified under Group A?
- (1) Longan (3) Chiku
 (2) Pineapple (4) Rubber fruit
22. Study the two groups of flowers listed below.

Group X	Group Y
Rafflesia	Ixora
Hibiscus	Frangipani
Rose	Cassia

The flowers are grouped according to whether they _____.

- (1) grow singly or in clusters
 (2) have a few petals or many petals
 (3) have bright colours or dull colours
 (4) have joined petals or separated petals

23. A plant that can be found growing on other trees is the _____

- (1) sedge
 (2) bird's nest fern
 (3) arrowhead
 (4) orchid plant

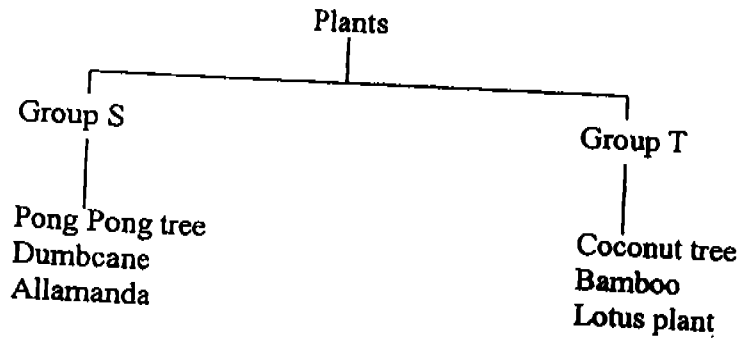
24. Study the list of plants below.

Bougainvillea plant	Arrowhead	Hydrilla
Stag's horn fern	Water lily	Chilli plant

Which one of the following statements is true for all of the above plants?

- (1) They have flowers.
 (2) They are land plants.
 (3) They reproduce by seeds.
 (4) They can make food for themselves.

Study the classification diagram below and answer questions 25 and 26.



25. Which one of the following sets of headings is suitable for Group S and T?

	Group S	Group T
(1)	Big plants	Small plants
(2)	Non-flowering plants	Flowering plants
(3)	Useful plants	Harmful plants
(4)	Harmful plants	Useful plants

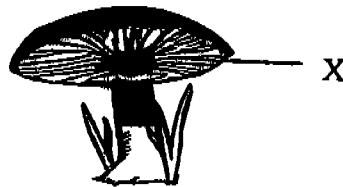
26. Which one of these plants can be grouped under Group T?

- (1) Duckweed
 (2) Radish plant
 (3) Pitcher plant
 (4) Elderberry plant

27. _____ help turn milk into cheese.
- | | |
|-------------|---------------------|
| (1) Fungi | (3) Plants |
| (2) Animals | (4) Micro-organisms |

28. To see micro-organisms, we need a _____.
- | | |
|----------------|----------------|
| (1) binoculars | (3) microscope |
| (2) hand lens | (4) telescope |

For questions 29 and 30, refer to the picture of a mushroom below.



29. What is the part marked 'X' called?
- | | |
|-----------|-----------|
| (1) Cap | (3) Lungs |
| (2) Gills | (4) Stalk |
30. What are present in 'X'?
- | | |
|------------|------------|
| (1) Moulds | (3) Seeds |
| (2) Pores | (4) Spores |

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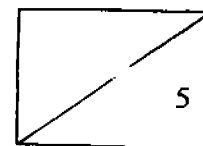
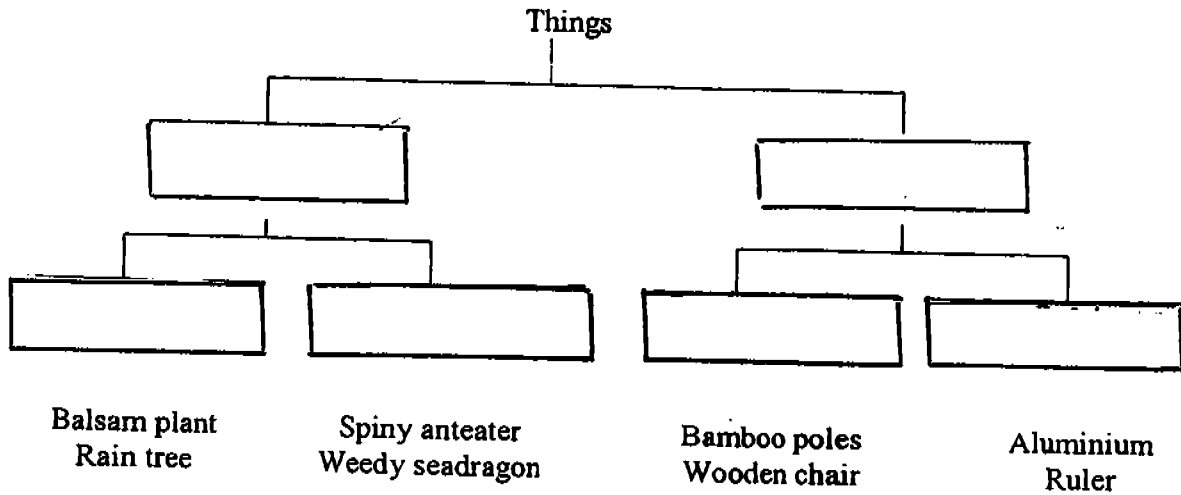
Part II (40 marks)

Part I	60
Part II	40
Total	100

Answer all the following questions.

31. List two reasons why a seedling is considered a living thing. (2m)

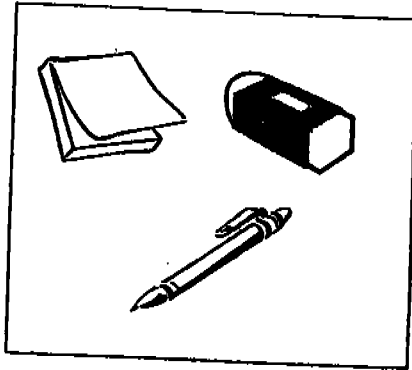
32. Fill in the classification diagram below with suitable headings. (3m)



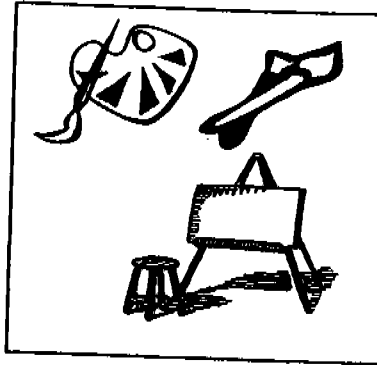
33. Look at the following items that have been grouped.

(3m)

Picture 1



Picture 2



a) Give suitable headings for each group.

Picture 1: _____

Picture 2: _____

b) Things are placed in the same group because they have _____ characteristics.

34. Name two animals that are both plant and animal eaters.

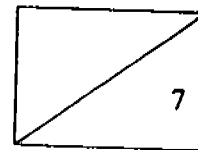
(2m)

- a) _____
- b) _____

35. List two reasons why the weedy seadragon is considered a fish.

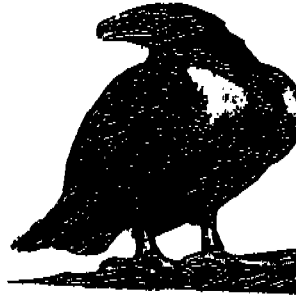
(2m)

- a) _____
- _____
- b) _____
- _____



36. Look at the pictures below.

(4m)



Based on what you can see, list two similarities and two differences between the squirrel and the hawk.

a) Similarities:

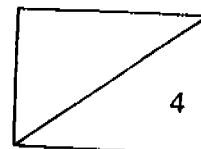
- i) _____

- ii) _____

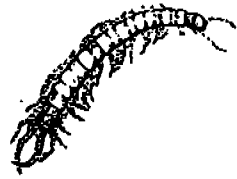
b) Differences:

- i) _____

- ii) _____



37. Look at the two pictures of the two animals shown below.



Animal A



Animal B

(a) Which of the above animals have a segmented body? (1m)

(b) Which one of the above animal is an insect? (1m)

(c) Give two reasons for your answer in (b). (2m)

38. Study the pictures of the leaves shown below. Write down two differences that you can observe. (2m)



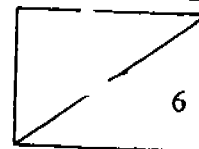
Leaf A



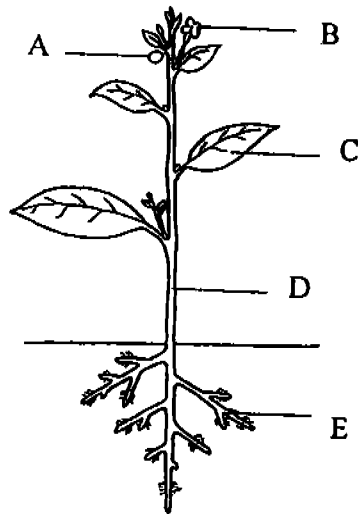
Leaf B

a) _____

b) _____



39. Look at the diagram of the plant shown below.

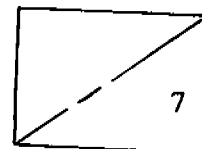


a) Name the part labelled E (1m)

b) What are its functions? (2m)

40. Read the following statements. Write 'T' for every true statement and 'F' for every false statement. (4m)

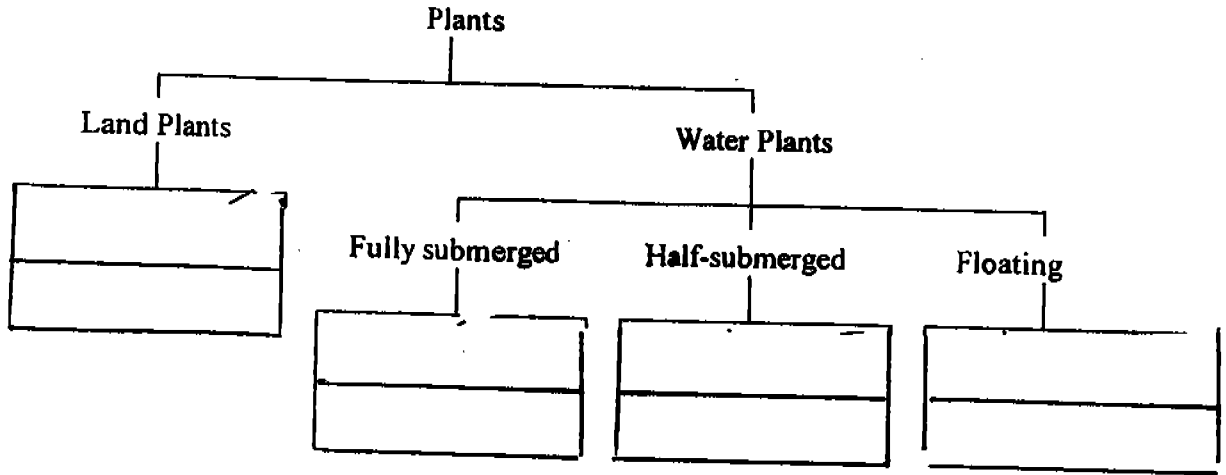
a)	A fruit protects the seeds.	
b)	The stem of all plants helps them to make food.	
c)	Mosquito fern and duckweed are water plants.	
d)	The leaves of a water lily plant are big, round and has toothed edge.	



41. The chart shows the classification of some plants.
Fill in the boxes with the correct names of the plants.

(3m)

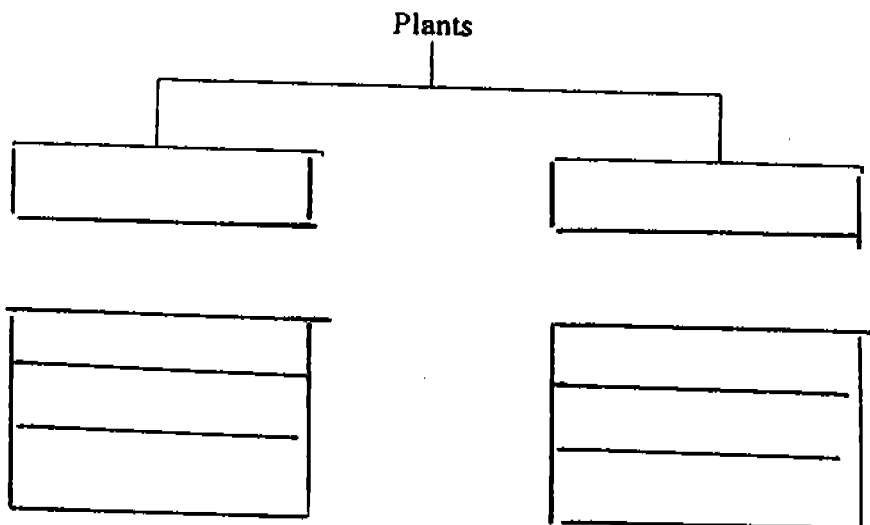
Papaya tree	Water hyacinth	Seaweed
Cattail	Cassia	Lotus



42. Complete the classification diagram using the list of plants given. Provide suitable headings for each group.

(4m)

Rose plant	Hibiscus plant	Bird's nest fern
Stag's horn fern	Ladder fern	Morning glory



43. Peter found some fungi growing on a tree trunk while he was trekking in Bukit Timah Nature Reserve. He was curious as to why there were fungi growing on the tree trunk.

a) Explain to Peter why fungi were found growing on the ~~tree~~ trunk

b) Give two examples of fungi.

i) _____

ii) _____

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 PRIMARY THREE
 SCIENCE

01. 4	11. 3	21. (4)
02. 1	12. 2	22. 1
03. 3	13. 2	23. 2
04. 4	14. 4	24. 4
05. 1	15. (3)	25. (4)
06. (4)	16. 2	26. (2)
07. 3	17. 3	27. 4
08. 3	18. (3)	28. 3
09. 4	19. 4	29. 2
10. 4	20. 3	30. 4

31) i) It can grow.

ii) It can respond to changes around it.

32) Living things Non-living things
 Plants Animals Once alive Never alive

33) a) Writing

b) Painting

b) similar

34) a) Monkey b) platypus

35) a) It has fins b) It breathe through its gills.

36) a) i) They both have tails.

ii) They both have eyes.

b) The squirrel has no wings while the hawk has wings.

ii) The squirrel is covered with fur while the hawk is covered with feathers.

37) a) Animal A b) Animal B c) It has 6 legs.

38) a) Leaf A is jagged edged while leaf B is entire edge.

b) Leaf B is heart shaped while leaf A is oval shaped.

39) a) roots b) It holds the plant firmly to the ground.

40) a) T

b) F

c) T

d) T

41) Papaya tree

Cassia

Seaweed

Cattail

Water hyacinth

Lotus

42) Flowering plants

Morning glory

Rose plant

Hibiscus plant

Non-flowering plants

Ladder fern

Stag's horn fern

Bird's nest fern

43) a) They cannot make food for themselves.

b) i) mushrooms

ii) mould