

Pei Chun Public School  
Semestral Assessment 1 – 2006  
Science  
Primary 3

Name : \_\_\_\_\_ ( ) Date : 8 May 2006

Class : Pri. 3 ( )

Time : 1h 30 min

Science Teacher : \_\_\_\_\_

**Section A (25 × 2 marks)**

For questions 1 to 25, choose the most suitable answer and shade its number (1, 2, 3 or 4) on the Optical Answer Sheet (OAS) provided.

1. Study the table below. Which of the following is grouped wrongly?

	Living Things	Non-living things	
(1)	egg	yeast	
(2)	seed	boat	
(3)	bird's nest fern	moon	
(4)	eagle	bird's nest	( )

Which of the following statements about living things are true?

- A: They can reproduce.
- B: They can make food.
- C: They can move from place to place.
- D: They respond to changes around them.

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

3. Which of the following can move by itself?

(1)



kite

(2)



clock

(3)



seedling

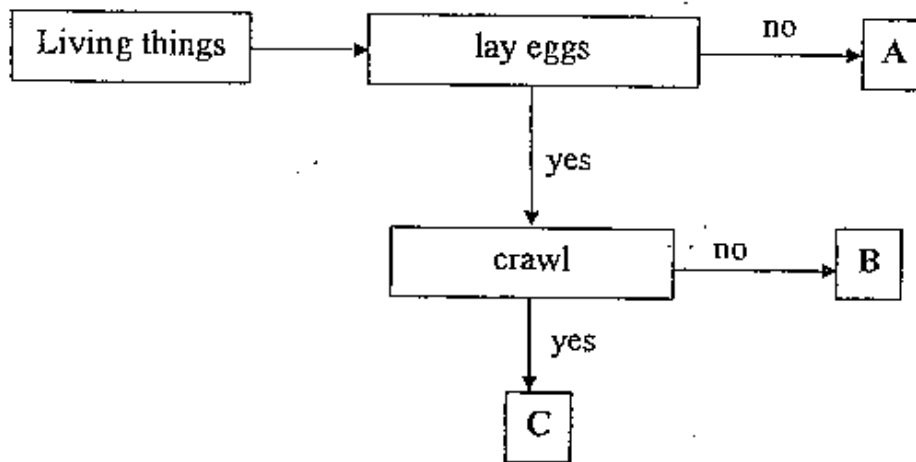
(4)



aeroplane

( )

4. Study the flow-chart below. A, B and C are three different living things.

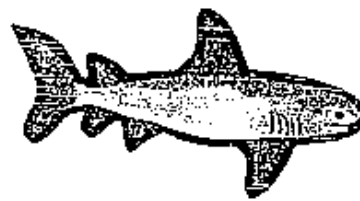


Which of the following best represents A, B and C?

	A	B	C
<del>(1)</del>	guppy	duck	ant
<del>(2)</del>	crocodile	chicken	duck
<del>(3)</del>	seal	ant	termite
<del>(4)</del>	whale	goldfish	penguin

( )

5. Study the pictures below.



Based on what you can see, which of the following statements about the two animals is definitely true?

- (1) Both have tails.
- (2) Both live in rivers.
- (3) Both eat the same food.
- (4) Both give birth to their young.

( )

6. Study the table below.

Group X	Group Y
cockroach	frog
grasshopper	mosquito



The animals are grouped according to \_\_\_\_\_.

- A: their outer coverings
- B: the way they reproduce
- C: whether their young look like their adults









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

( )

7. Sue grouped some living things as shown below.

Group A	Group B
 <p data-bbox="555 724 587 760">X</p>	 <p data-bbox="1079 745 1112 781">Y</p>

What should X and Y be?

	X	Y
(1)		
(2)		
(3)		
(4)		

8. Look at the pictures of the two living things.

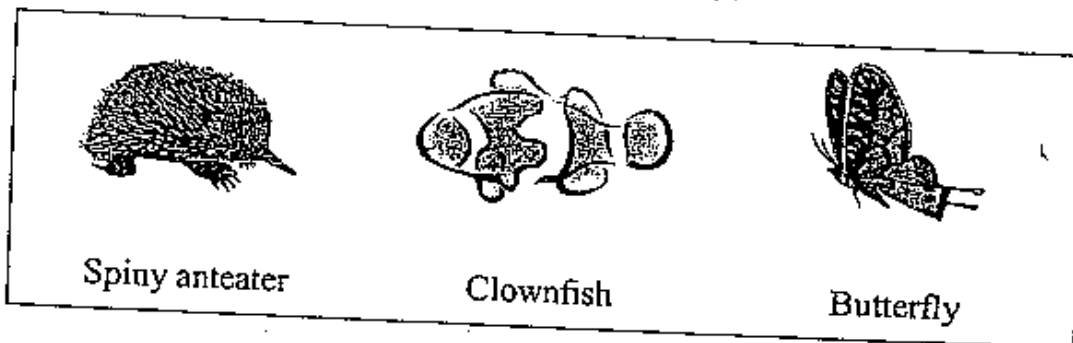


Which of the following is true?

	Similarities	Differences
(1)	Both gallop.	One gives birth but the other lays eggs.
(2)	Both give birth.	One walks but the other runs.
(3)	Both have manes.	One has stripes but the other does not have.
(4)	Both eat other animals.	One has stripes but the other does not have.

( )

9. The animals below share common characteristic(s).



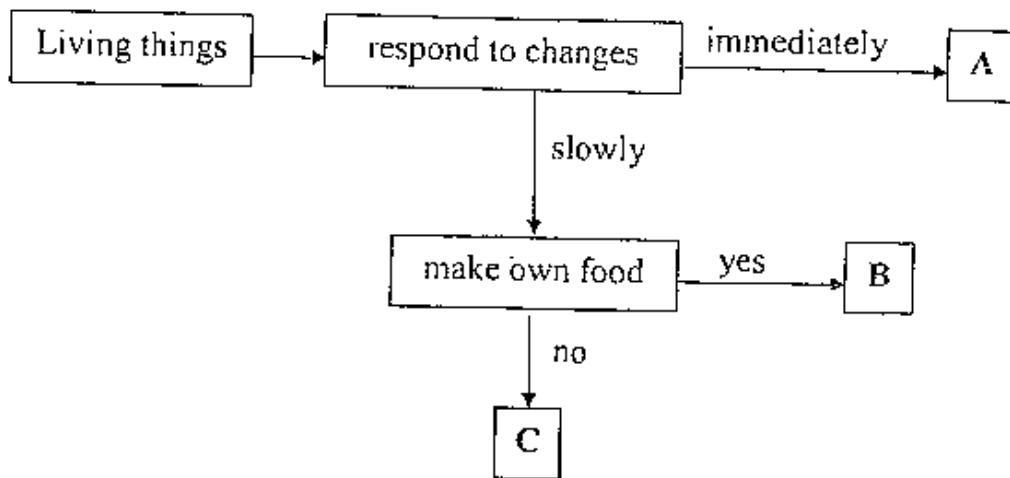
What is/are the common characteristic(s)?

- A: They lay eggs.
- B: They are mammals.
- C: They need air, food and water to survive.

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

( )

10. Study the flow-chart below. A, B and C are three different living things.



Which one of the following does A, B and C represent?

	A	B	C
<del>(1)</del>	grass	orchid plant	rose plant
<del>(2)</del>	dog	mushroom	hydrilla
<del>(3)</del>	cheetah	goldfish	seedlings
<del>(4)</del>	tortoise	mango tree	mushroom

( )

11. The picture below shows a micro-organism.

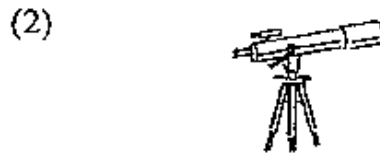


Amoeba

Which of the following tools can be used to observe the micro-organism shown above?



spectacles



telescope



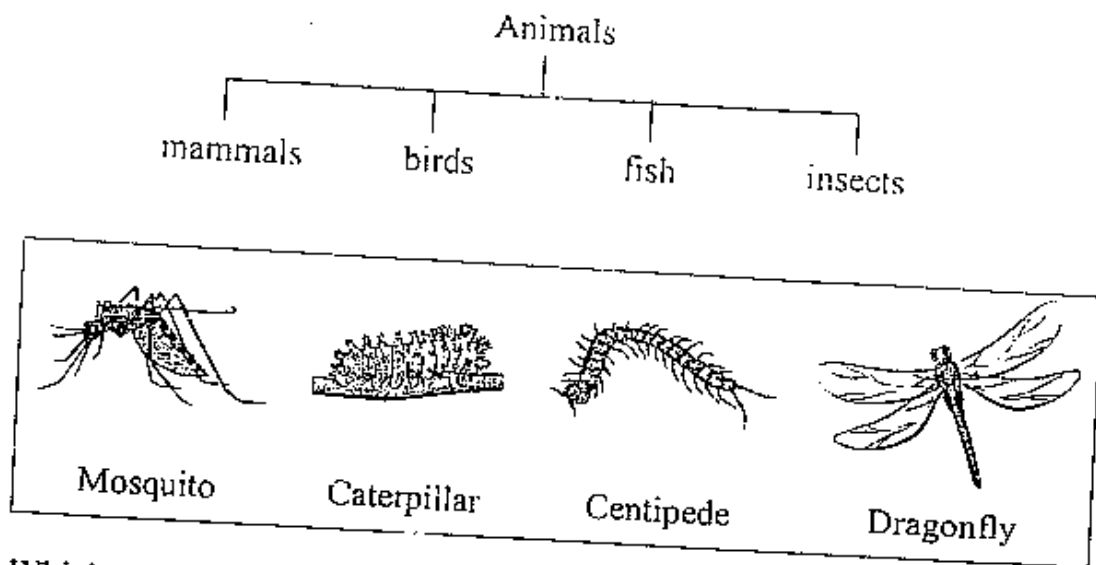
magnifying glass



microscope

( )

12. Ramli found four animals and wanted to classify them using the flowchart shown below.

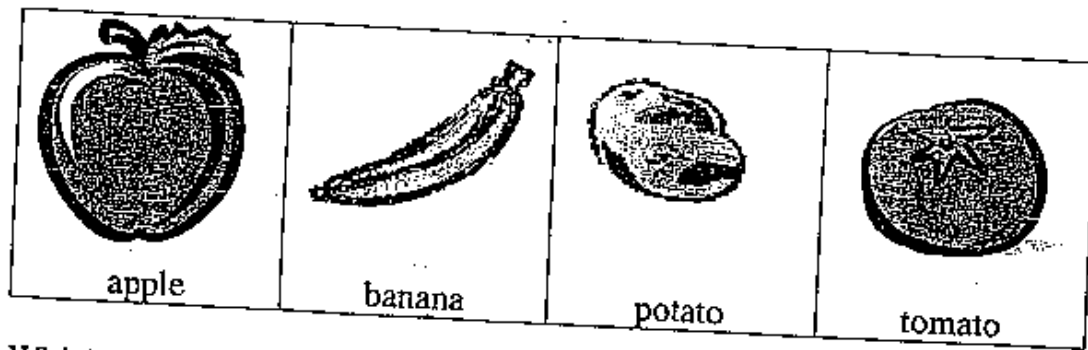


Which of them does not belong to the same group as the rest?

- (1) Mosquito
- (2) Caterpillar
- (3) Centipede
- (4) Dragonfly

( )

13. Look at the pictures below.

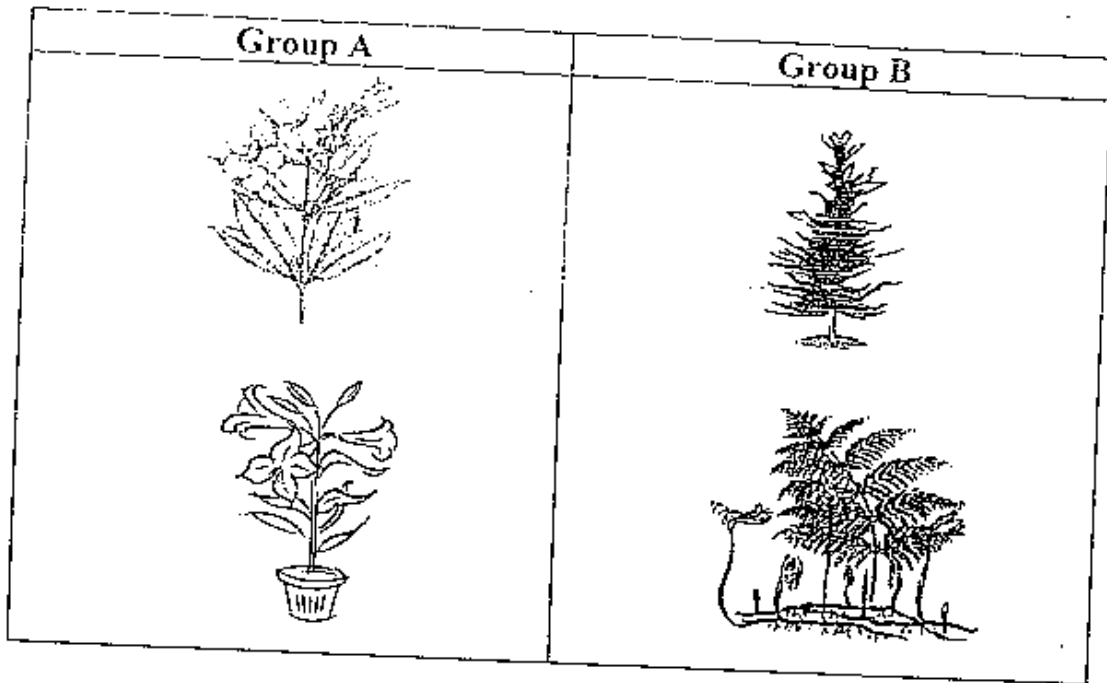


Which of the above is not a fruit?

- ~~(1) apple~~
- ~~(2) banana~~
- ~~(3) potato~~
- ~~(4) tomato~~

( )

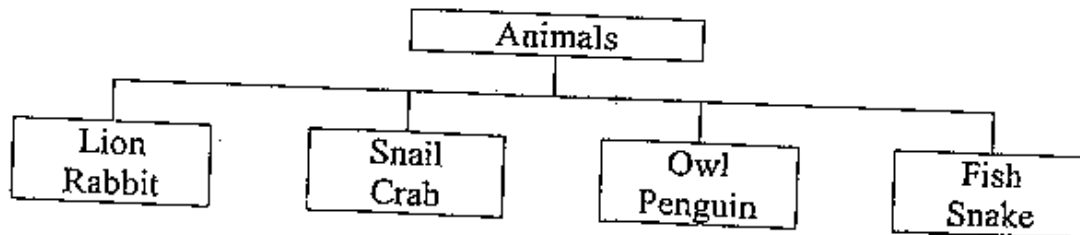
14. Study the two groups of plants below.



Which of the following are the correct headings for each group of plants?

	Group A	Group B	
<del>(1)</del>	flowering plants	non-flowering plants	
<del>(2)</del>	land plants	water plants	
<del>(3)</del>	plants with thorns	plants without thorns	
<del>(4)</del>	non-poisonous plants	poisonous plants	( )

15. Study the four groups of animals below.






The animals are classified according to \_\_\_\_\_

- (1) their habitats
- (2) the food they eat
- (3) the way they move
- (4) their outer coverings

( )



16. Study the diagram below. A, B and C represent the characteristics of the animals.

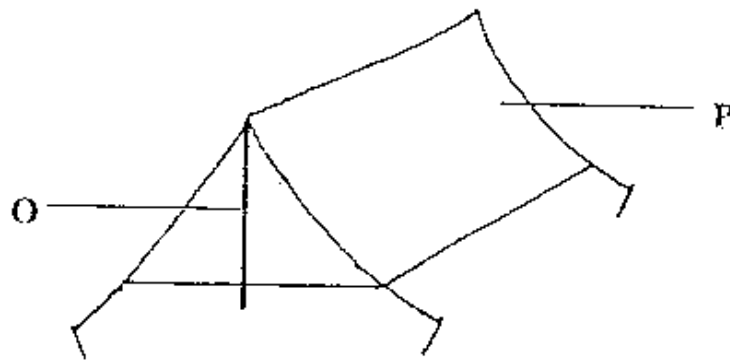
Animals	A	B	C
 penguin		✓	✓
 bat	✓		
 platypus			✓

Which of the following represents A, B and C correctly?

	A	B	C
<del>(1)</del>	has feathers	lays eggs	can fly
<del>(2)</del>	can fly	has feathers	lays eggs
<del>(3)</del>	can fly	lays eggs	has feathers
<del>(4)</del>	has feathers	can fly	lays eggs

( )

17. The picture below shows a tent.



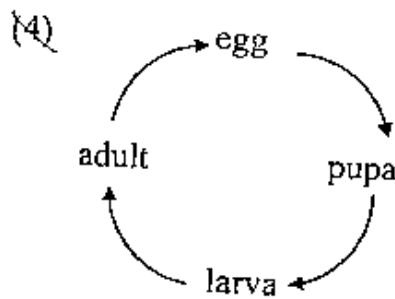
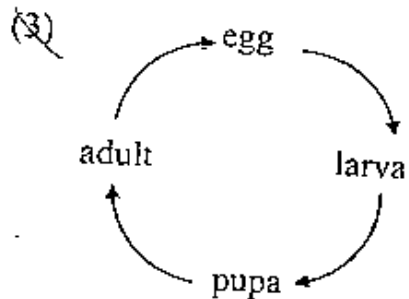
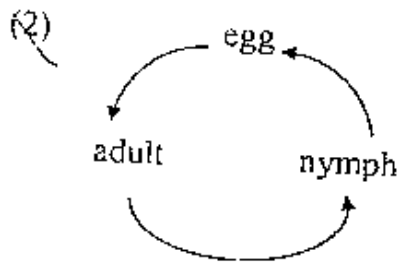
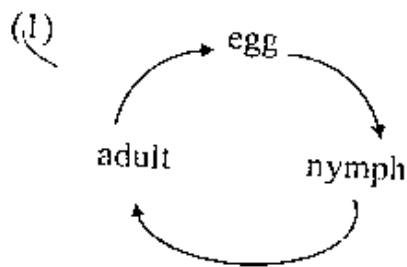
What material can O and P be?

	O	P	
<del>✓</del> <del>✓</del> <del>✓</del> <del>✓</del>	metal	plastic	( )
	metal	glass	
	rubber	metal	
	rubber	rubber	

18. Which of the following objects are grouped correctly?

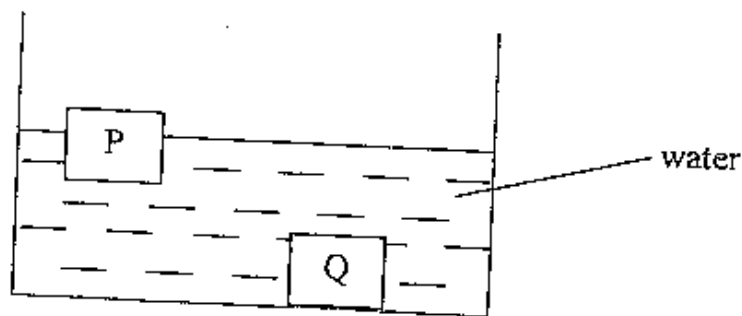
	hard and smooth	light and soft	
<del>✓</del> <del>✓</del> <del>✓</del> <del>✓</del>	sandpaper	feather	( )
	paper	cloth	
	mirror	cotton wool	
	marble	knife	

19. Which of the following shows the correct order for the growth of a mosquito?



( )

20. Look at the picture below.

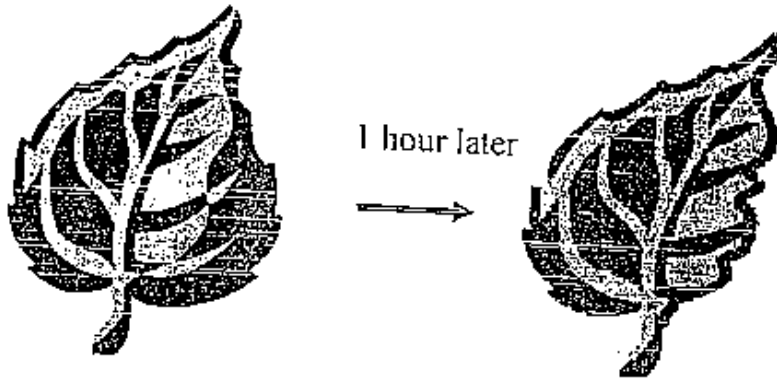


What materials are P and Q likely to be?

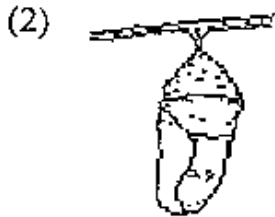
	P	Q
(1)	rubber	wood
(2)	plastic	styrofoam
(3)	glass	rubber
(4)	wood	metal

( )

21. Look at the diagram below.

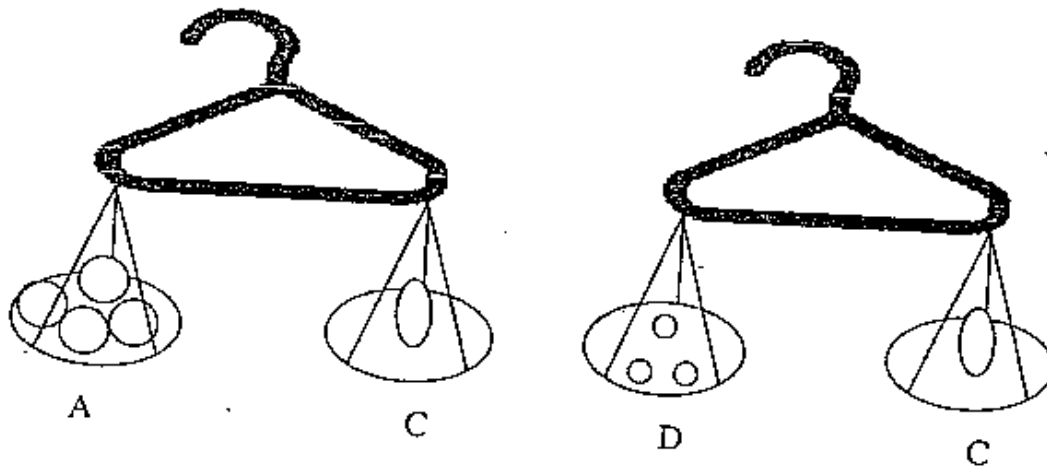
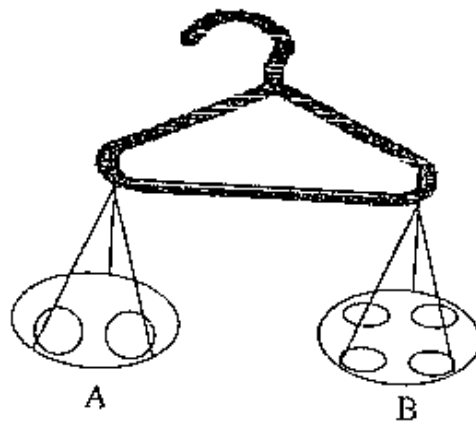


At which stage of the life cycle of the butterfly could have caused the change in the leaf?



( )

22. Devi balanced some fruits using a coat hanger.



Which is the heaviest fruit?

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

( )

23. Sally put a few green beans on moist cotton wool and watered them daily. She left the set-up in the classroom. After one week, she realized that the green bean did not germinate.

What might be the reason for that?

- ~~(1)~~ She used cooked green beans.
- ~~(2)~~ There was not enough sunlight.
- ~~(3)~~ She did not add fertilizer to the beans.
- ~~(4)~~ She did not plant the green beans in the soil.

( )

24. Sandy caught an animal which has a three stage life cycle. It does not look like its adult. Its adult can live on land and in the water. Which of the following animals did Sandy catch?

(1)



(2)



(3)



(4)



( )

25. The table shows some features of four boys.

Characteristics	Andy	Ben	Caleb	Don
Has brown eyes	✓	✓	✓	✓
Has natural black hair	✓	✓	✓	x
Has widow's peak	x	✓	x	✓
Able to roll his tongue into U-shape	✓	x	✓	✓

Which two boys are most likely to be identical twins?

- ~~(1) Andy and Don~~
- ~~(2) Andy and Caleb~~
- ~~(3) Ben and Caleb~~
- ~~(4) Ben and Don~~

( )

For Questions 26 to 30, please refer to Booklet K.

End of Section A

Date : 8 May 2006

Time : 1 hr 30 min

Marks for Section A	
Marks for Section B	60
Marks for Booklet K (exclude Section A Qns. 26 to 30)	30
Total Marks	10
	100

**Section B (30 marks)**

For questions 31 to 42, write your answers in the spaces provided.

31. Study the pictures below.



Based on the pictures, give two reasons to explain why dogs are living things but cars are not living things.

a)

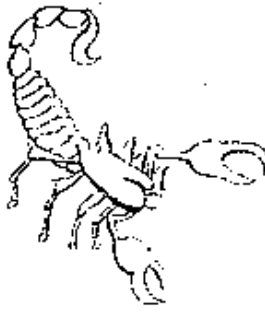
(1m)

b)

(1m)

32. Study the picture below.

(2m)



Give two reasons to explain why the animal shown is not an insect.

a)

b)

33. Greg carried out an experiment using 3 identical slices of bread, A, B and C. These slices of bread had undergone some treatment as shown in the table below.

Bread	Treatment done to the bread
A	It was placed under the hot sun.
B	It was toasted and placed on a plate.
C	It was placed in a container with some water.

a) Which slice of bread (A, B or C) is most likely to become mouldy first?

(1m)

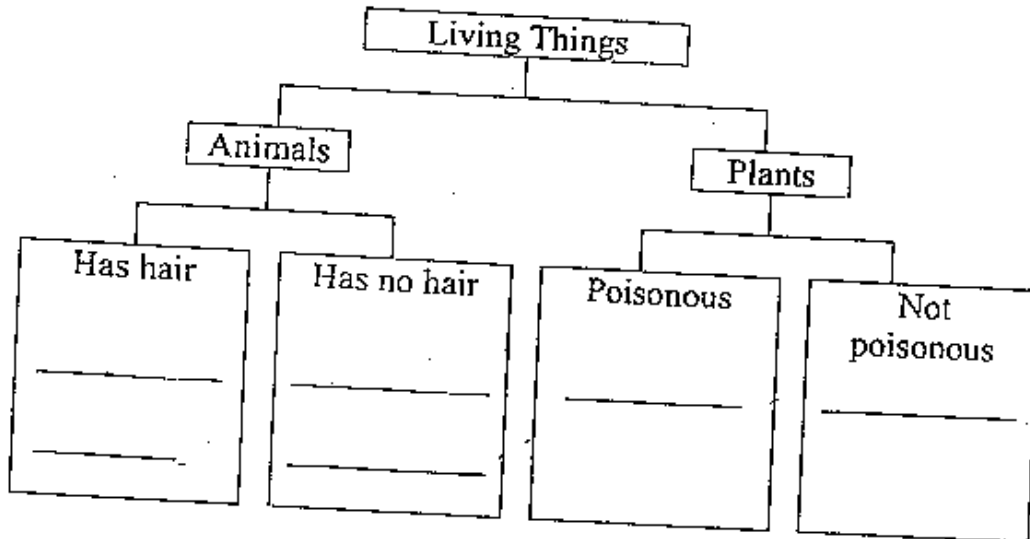
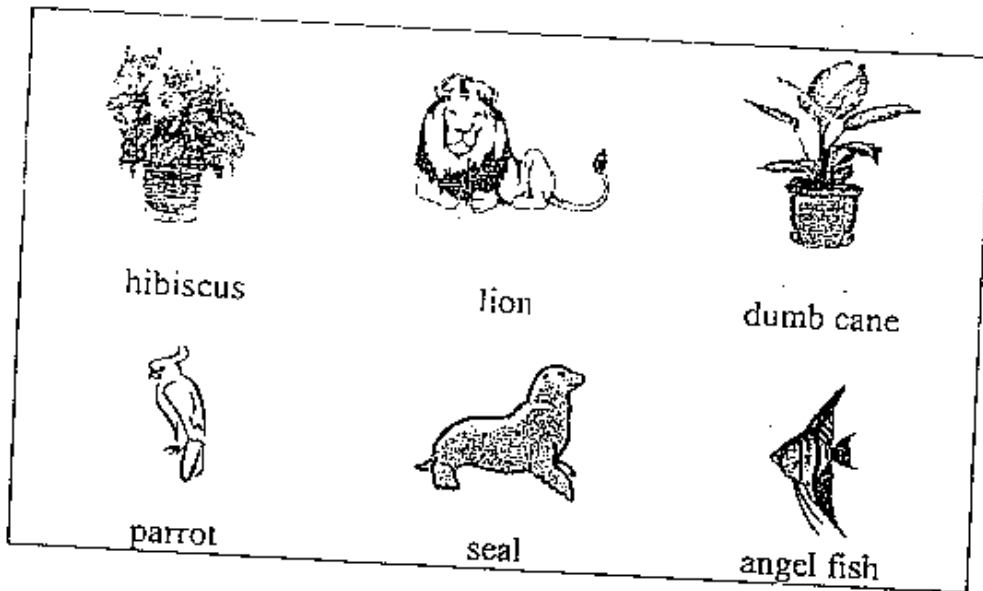
b) Give a reason for your answer in (a).

(1m)



34. Complete the classification chart with the words given below.  
Use each word **once only**.

(3m)



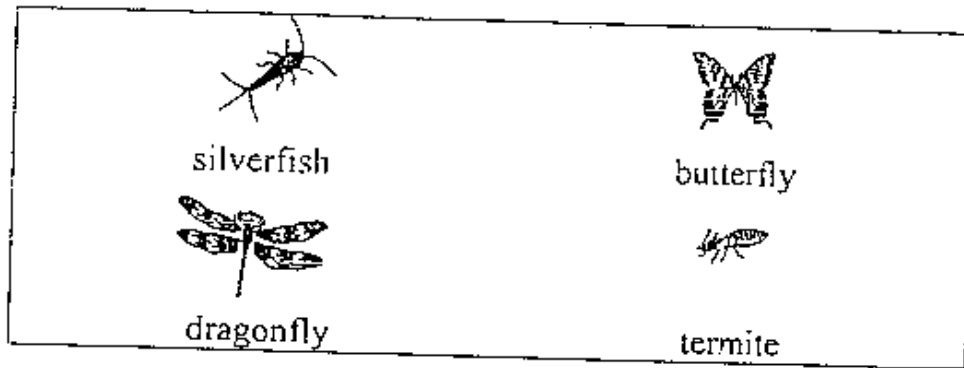
35. Study the classification table below. Give a suitable heading for the two different groups based on how the animals reproduce.

(2m)

Animals that	Animals that
ostrich butterfly fish duck-billed platypus	seal kangaroo swordtail

36. Study the pictures below.

(3m)



Classify the insects into two equal groups. Give a heading for each group.


37. Study the living things below. Match the young to the adult.

(2m)

a)



•



•

b)



•



•

c)



•



•

d)









•



•

38. Study the two groups of plants below.

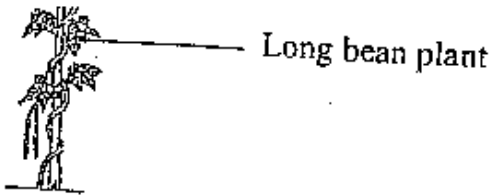
Group A	Group B
 hibiscus	 goose grass
 coconut tree	 rose
 rain tree	 money plant

a) If Group A's heading is "Plants with Woody Stems"; give a heading to Group B. (1m)

Group B:

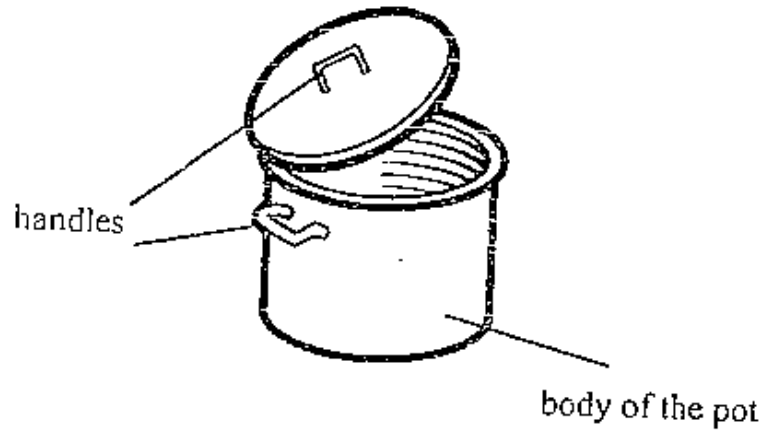
b) Which plant in group B is classified wrongly? (1m)

c) (1m)



Should the ~~slong~~ <sup>long</sup> bean plant be placed in Group A or Group B?

39. This picture shows a cooking pot.



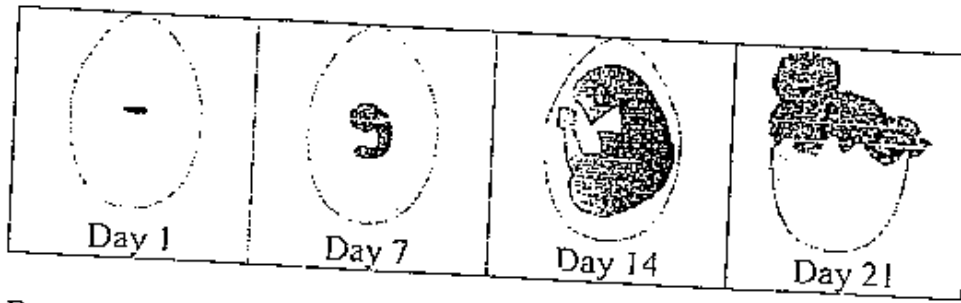
- a) Which of the following material is most suitable for making the handles? Put a tick (✓) in the correct box. (1m)

Material	Tick (✓) only one answer
metal	
plastic	
glass	

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

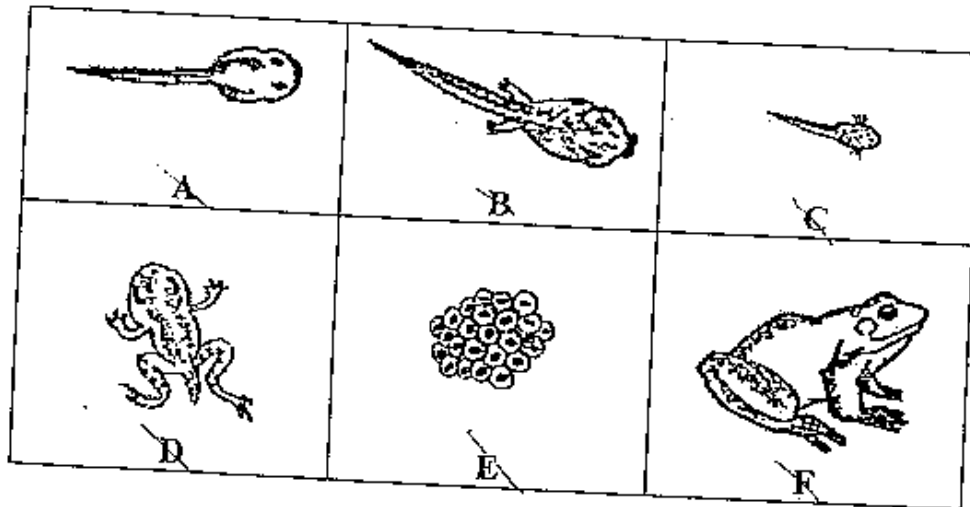
- c) Name a material that can be used to make the body of the pot. (1m)

40. Study the diagrams below.



a) Based on the diagram, if the egg was laid on 3 February, on what date would the egg hatch? (1m)

b) The pictures below show the various stages of the life cycle of a frog.



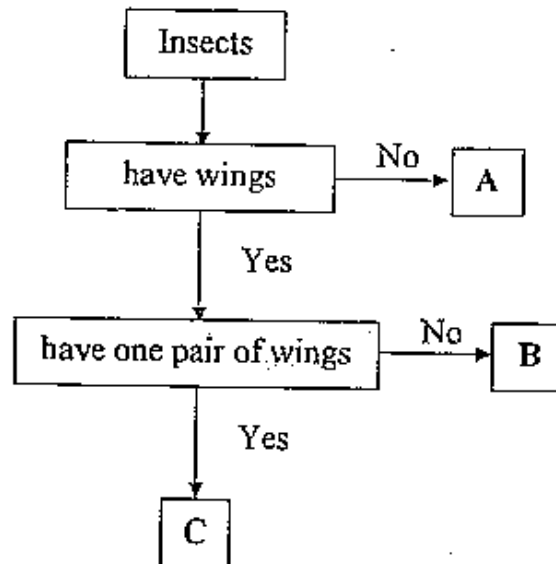
Arrange the stages correctly. (1m)

E → C → \_\_\_\_\_ → \_\_\_\_\_ → \_\_\_\_\_

41. Study the pictures of the insects below.



- a) How many stages are there in the life cycles of these three insects? (½m)
- b) What is one difference between a cockroach nymph and the adult cockroach? (Do not compare size or shape.) (1m)
- c) Study the flow-chart below. A, B and C represents three different insects. (1½m)



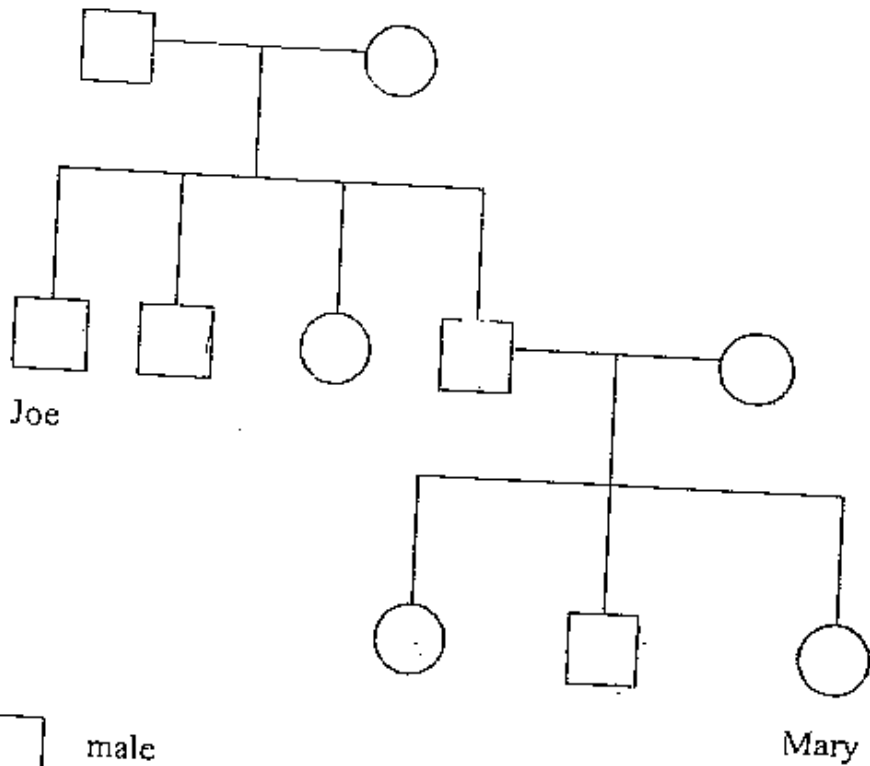
Which of the letters (A, B or C) represent the insects listed below?

Dragonfly - \_\_\_\_\_

Housefly - \_\_\_\_\_

Ant - \_\_\_\_\_

42. Study the family tree below.



Put a tick (✓) in the correct boxes below.

(3m)

	Statements	True	False	Impossible to tell
a)	Mary has an elder brother.			
b)	Joe has only one brother.			
c)	Joe is Mary's uncle.			

For Questions 43 to 46, please refer to Booklet K.

End of Booklet K

Set by : Ms Ong Melissa  
 Vetted by: P3 Science Committee teachers

## Answer Sheets

Pei Chun Pri 3 SA1/2006 Science

1)1	2)1	3)3	4)1	5)1	6)2
7)2	8)3	9)3	10)4	11)4	12)3
13)3	14)1	15)4	16)2	17)1	18)3
19)3	20)4	21)1	22)3	23)1	24)2
25)2	26)4	27)2	28)2	29)3	30)4

31)a. Dogs reproduce but cars do not

31)b. The dogs need food to survive but the car don't.

32)a. It does not have three body parts.

32)b. It does not have three pairs of legs.

33)a. C would be moldy first.  
grow.

B. Mould needs damp and dark places to

34)(animal) Has hair: -seal, lion

no hair: -parrot, angel fish

(plant) Poisonous :- dumbcane

Not poisonous: Hibicus

35)lay eggs: -ostrich, ...

give birth to young :- seal, .....

36)without wings: -silver fish, termite

with wings: -dragonfly, butterfly

37)a) mositqeo

b) rabbit

c) duck

d) butterfly

38)a. plants with weak stems

b. Rose is classified wrongly

c. Group B

39)a. Plastic b. It is not hot to hold

c. Metal

40)a. It would be hatched on 23<sup>rd</sup> February

b. E-C-A-B-D-F

41)a. Three b. The adult cockroach has wings but the nymph does not have wings

41)c. Dragonfly -B

housefly -C

Ant -A

42)a. Impossible to tell

b. F

c. T