

Tao Nan School
Primary 3 Science
Mid-Year Examination 2006

Date: 10 May 2006

Class: P3

Time: 1 h 15 min

Marks: _____/100

Section A (30 x 2 marks)

For each question, choose the most suitable answer and shade its corresponding oval (1, 2, 3 or 4) in the optical response sheet.

1) The leaves of a Rainfree close in the evening. This shows that the leaves can _____.

- (1) grow
- (2) reproduce
- (3) move by themselves
- (4) take in air, water and food

()

2) Which of these animals has wings but cannot fly?

- (1) eagle
- (2) penguin
- (3) kingfisher
- (4) woodpecker

()

3) Which of the following is made from things that were **never** alive?

- (1) sandcastle
- (2) paper plate
- (3) carrot cake
- (4) rubber band

()

4) The animals below are grouped according to their type of outer body covering.

Group A	Group B	Group C	Group D
Chicken	Crab	Cat	Crocodile
Duck	Lobster	Donkey	Lizard

In which group would you put the **snail**?

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

()

5) The things shown below are grouped together because they are classified according to the _____.

Tiger
Shark
Polar Bear
Crocodile

Sheep
Cow
Deer
Rabbit

- (1) food they eat
- (2) place they stay
- (3) outer body coverings
- (4) responses they make

()

6) The great variety of living and non-living things is called _____.

- (1) diversity
- (2) grouping
- (3) similarity
- (4) classification

()

7) Which of the following animals live on land but lay eggs in water?

- (1) turtle
- (2) mosquito
- (3) butterfly
- (4) crocodile

()

8) A swallow was kept in a cage.. It was fed daily with bird seeds **only**. After a week, it died. The bird died possibly because it did not have_____.

- (1) air
- (2) food
- (3) water
- (4) shelter

()

9) After they are cooked, they are considered dead. When peanuts are uncooked, they are considered alive. Why are uncooked peanuts considered alive?

- (1) They are soft when cooked.
- (2) They are capable of growing into new plants.
- (3) They have no chlorophyll.
- (4) They have seed leaves to provide food for them.

()

10) Most plants get enough nutrients from the soil.
Pitcher plants need to get extra nutrients by _____.

- (1) "eating" insects
- (2) "sucking" nectar
- (3) storing food
- (4) making food

()

11) A plant is different from a butterfly because a butterfly can _____ but a plant cannot.

- (1) grow
- (2) reproduce
- (3) respond to changes
- (4) move from place to place

()

12) Which of the following fruit has only one seed?

- (1) kiwi
- (2) guava
- (3) soursop
- (4) avocado

()

13) _____ help plants to reproduce.

- (1) Seeds
- (2) Chlorophyll
- (3) Root hairs
- (4) Leaf stalks

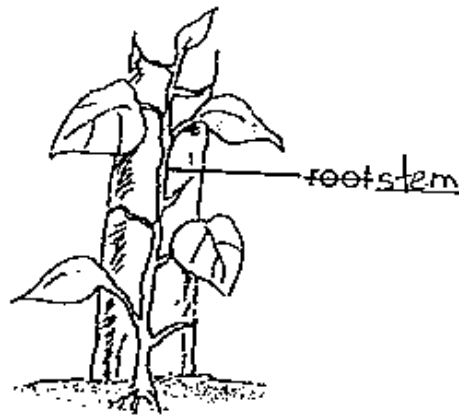
()

14) Mr Lim took his pupils to a plant exhibition. From a distance, there was a strong smell of rotting meat coming from a plant. The pupils concluded that it must have come from a _____.

- (1) Hibiscus plant
- (2) Jasmine plant
- (3) Rafflesia plant
- (4) Frangipani plant

()

15) The main function of the ^{stem} roots of the plant below is to _____.



- (1) grow into a new plant
- (2) store food for the plant
- (3) take in water for the plant
- (4) hold the plant up for sunlight

()

16) _____ are living things that are used in making cheese and yoghurt.

- (1) Fungi
- (2) Ants
- (3) Bacteria
- (4) Mice

()

17) Mary has been sneezing and coughing the whole day. She is also having a high fever. Which of the following could have affected her?

- (A) Virus
- (B) Perfume
- (C) Bacteria
- (D) Smoke

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

()

18) We get mouldy bread when _____ grow and feed on the bread.

- (1) yeast
- (2) seeds
- (3) spores
- (4) bacteria

()

19) John saw some crows pecking at a packet of left-over food. He yelled and flapped his hands at them. They flew away. This shows that the crows _____

- (A) need air, water and food
- (B) move by themselves
- (C) respond to changes around them
- (D) can reproduce

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

()

20) Which of the following part **cannot** be found in a seahorse?

- (1) Fins
- (2) Scales
- (3) Gills
- (4) Beak

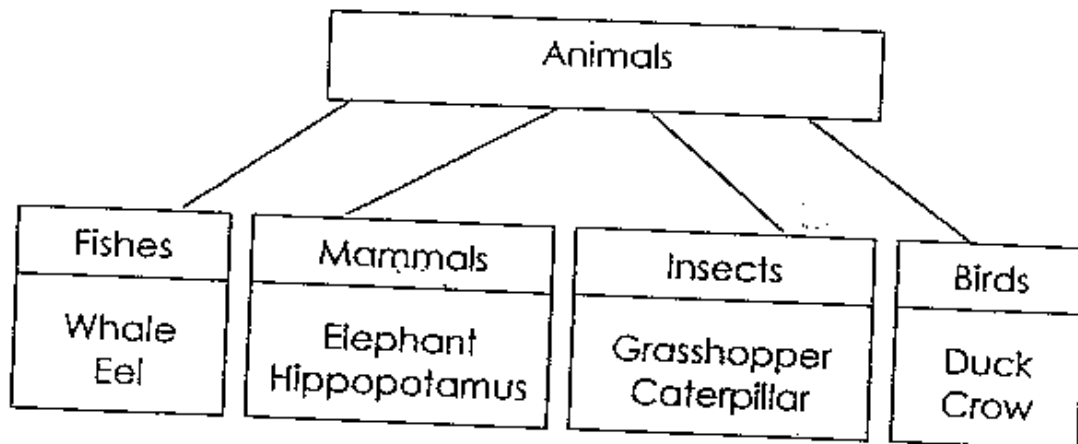
()

21) Lynn selected a pink eraser that smells of lavender. She is using her sense of _____ and _____

- (1) sight and smell
- (2) touch and smell
- (3) sight and hearing
- (4) hearing and touch

()

22) Study the classification chart below and find out which group is **wrongly** classified.



- (1) Mammals
- (2) Fishes
- (3) Insects
- (4) Birds

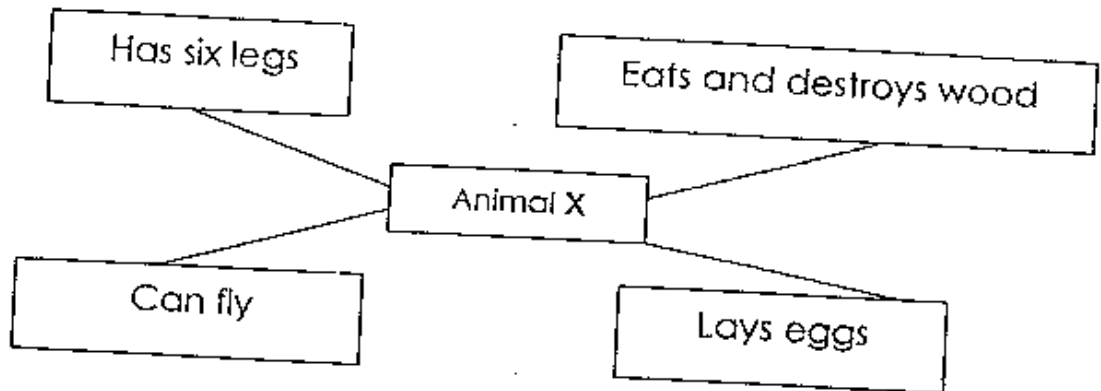
()

23) Which of the following animals **does not** have a similar body shape as the rest ?

- (1) tiger
- (2) iguana
- (3) panther
- (4) cheetah

()

24) Study the concept map below.



What can animal X be?

- (1) Ladybird
- (2) Termite
- (3) Red ant
- (4) Damselfly

()

25) Which of the following is true?

- (1) Insects can fly.
- (2) Insects live underground.
- (3) An insect's body has three body parts.
- (4) An insect breathes through its breathing holes.

()

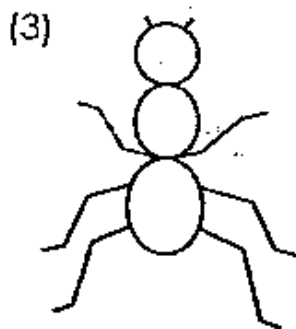
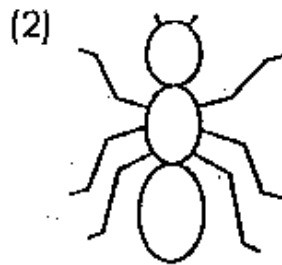
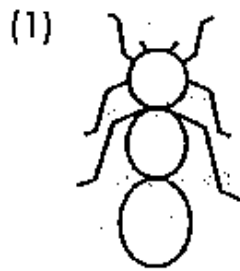
26) Human beings are classified as mammals because they _____.

- (1) can live on land
- (2) have a head and a torso
- (3) give birth to their young
- (4) produce milk for their babies to suckle ()

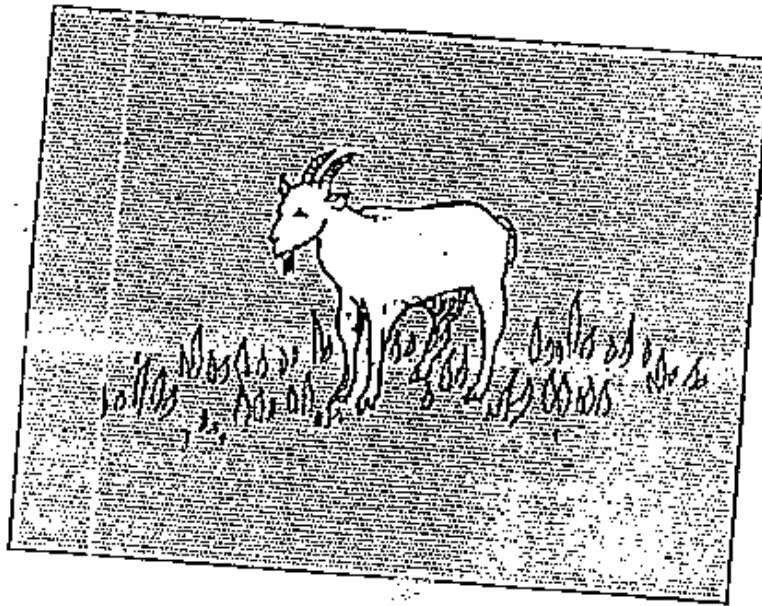
27). The _____ of a fish help to protect its body.

- (1) fins
- (2) tail
- (3) gills
- (4) scales ()

28) Which of the following drawing is most accurate of an insect?



29) Four children looked at the picture below. Each of them made a statement about it.



Yvonne: The goat is eating grass.

Irene: The goat has escaped from its owner.

Susan: The goat is standing on the grass.

Alice: Someone has brought the goat there.

Who had made a statement that is most likely to be true?

- (1) Yvonne
- (2) Irene
- (3) Susan
- (4) Alice

()

30) The chart below shows people's breathing rates when they are resting.

Breathing rates	
People	Average number of times per minute
Baby girls	38
6 year old girls	25
6 year old boys	25
11 year old girls	20
Mothers	16

From the chart, we can conclude that _____.

- (1) girls breathe faster than boys
- (2) boys breathe faster than girls
- (3) older people breathe faster than younger people
- (4) younger people breathe faster than older people

()

Class : P3

Section B (40 marks)

Write your answers in the blanks provided.

31) Classify the following into their correct groups. (3 marks)

chair	refrigerator	guppy
pigeon	telephone	crocodile

Living things

Non-Living Things

32) List two groups of living things that can cause our food to turn bad. (2 marks)

(a) _____

(b) _____

*33) The diagrams below show an ant and a cockroach.



An ant



A cockroach

State three reasons why they are classified as insects.
(3 marks)

(a) _____

(b) _____

(c) _____

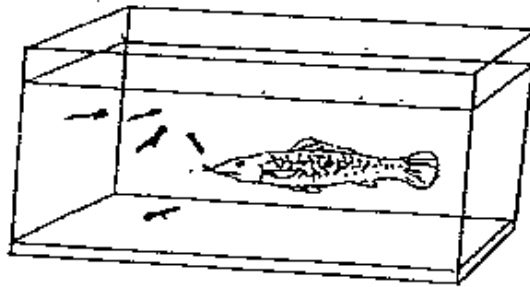
34) Mum asked Minmin to sweep the backyard. While sweeping, she looked up at a tree and noticed that the lower side of its leaves often has a paler green than the upper side. Give one reason to explain what Minmin saw. (2 marks)

35) Mrs Tan left a slice of moist bread in a plastic bag. After a week, she noticed some "black and green spots" on the bread.

(a) What are these "black and green spots"? (1 mark)

(b) Why do these "black and green spots" reproduce so quickly? (1 mark)

36) Juyi put some tadpoles with an arowana in a fish tank.



(a) After one day, what would happen to the number of tadpoles? (1 mark)

(b) What could be the reason for (a)? (1 mark)

37) The _____ of a plant supports the branches and leaves. (1 mark) The green leaves can make food because they have _____ (1 mark)

Plants bear flowers. _____ develop from flowers. (1 mark)

38) Classify the animals below in their correct groups. (4 marks)

Animal	Group
Crocodile	Reptile
Peacock	
Butterfly	
Mudskipper	
Gorilla	

39) Write down the differences between a goldfish and a crow. (4 marks)

	Goldfish	Crow
Body covering		
Movement		

40) Mrs Tan left her pot of green plant near a window. After a week, she noticed that the plant grew towards the window.

(a) What can you say about the reaction of the plant?

(b) Why did the plant grow towards the window? (1 mark)

41) Both an eagle and a helicopter can fly. How does the eagle fly **differently** from the helicopter? (2 marks)

Eagle -

Helicopter-

42) Write down the **differences** between a penguin and a bat. (3 marks)

	Penguin	Bat
Outer Covering		
The way the animal moves		
The way the animal reproduces		

43) I have the same name as a country.
I have feathers on my body.
I lay eggs on land.
People are afraid to eat me now because of a type of flu.
What am I? (2 marks)

44) Peter planted some green bean seeds in a plastic container with some damp cotton wool.

(a) What will happen to the seeds a few days later?
(1 mark)

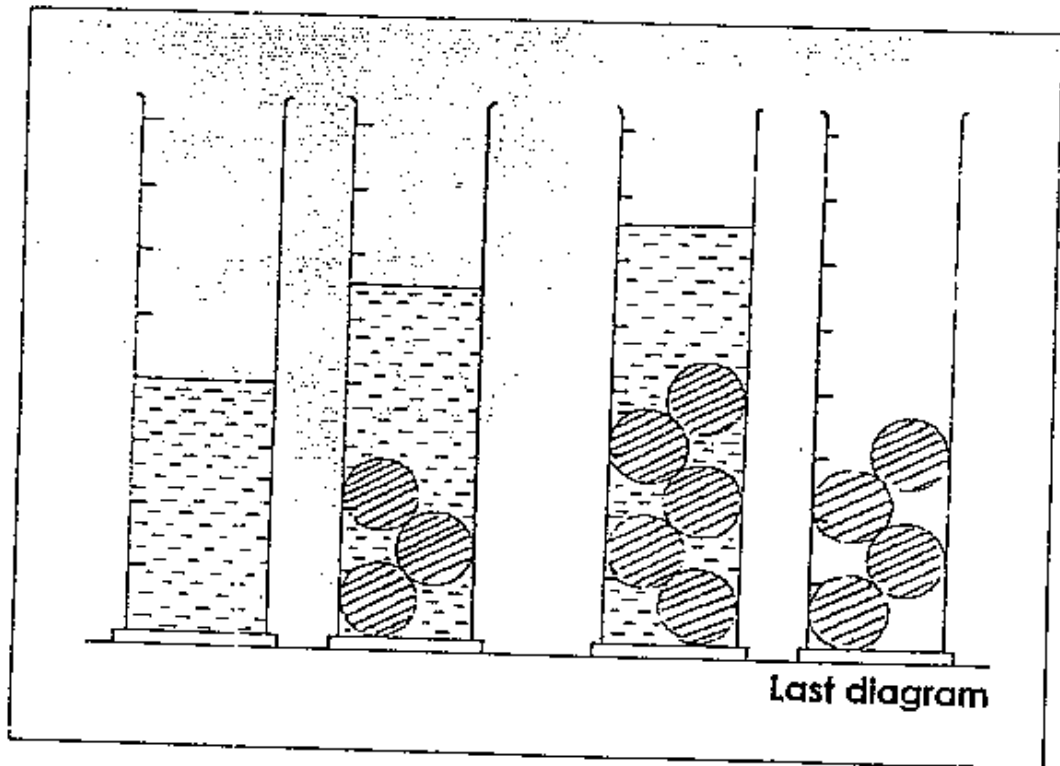
(b) What characteristic of living things does this reaction of the seeds show? (1 mark)

45) A robot can move and respond but it is not considered a living thing. Give two reasons why it is not considered a living thing.
(2 marks)

i) _____

ii) _____

- 46) The diagrams below show the water levels in a jar when a number of similar marbles were put into it. (2 marks)



John noticed that the water level rose each time he put a marble into the jar.

Draw a line in the last diagram to show where the water level should be when 4 similar marbles were put into the jar.

End of paper

Answer Sheets
Tao Nan Pri 3 SAI / 2006 Science

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

Q31.

Living Things	Non-living things
guppy	chair
pigeon	refrigerator
crocodile	telephone

Q32a.

fungi

b.

Bacteria

Q33a.

Both have six legs

b.

Both have feelers.

c.

Both have head, thorax and abdomen.

Q34.

The underside of the leaves received lesser sunlight thus there is less chlorophyll present.

Q35a.

It is mould.

b.

The presence of the moisture.

Q36a.

The number of tadpoles decreased.

b.

An arrowana ate them up.

Q37

The stems support the branches and leaves. The green leaves can make food because they have chlorophyll.
Plants bear flowers. Fruits develop from flowers.

Q38.

Animal	Group
Crocodile	Reptile
Peacock	Birds
butterfly	Insects
Mudskipper	Fish
Gorilla	Mammal

Q39.

	Goldfish	Crow
Body covering	Scales	Feathers
Movement	Swim	Fly

Q40a. The plant response to the sunlight thus it's growing towards the sunlight.
b. The plant needs sunlight to make food.

Q41. Eagle uses its wing and flies itself.
Helicopter it needs a pilot.

Q42.

	Penguin	Bat
Outer Covering	Fur	Hair
The way the animal moves	Swim	fly
The way the animal reproduces	Lays egg	Give birth to young alive

Q43. A Turkey

Q44a. The seed coat will burst open. The roots will grow out.
b. Livings grow.

Q45(i). It do not reproduce
(ii) It does not need air, water and food.

Q46

