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**Tao Nan School**  
**Primary Three Science End-of-Year Examination 2004**

Name : \_\_\_\_\_ ( )

Date : 1 Nov 2004

Class : P 3 ( )

Duration : 1 hour

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

Marks : \_\_\_\_\_ / 100

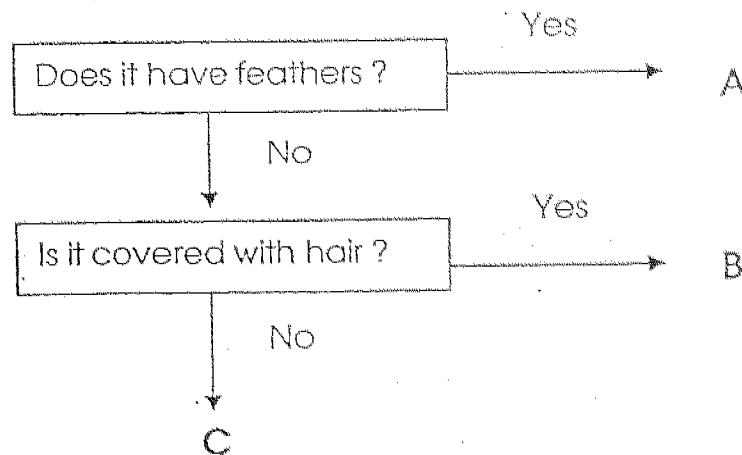
**Section A : ( 30 X 2 marks )**

For each question, choose the most suitable answer and shade its corresponding oval in the ORS.

1. Which of the following groups of animals are mammals ?

- (1) Sheep, eagle, damselfly
- (2) Elephant, deer, grasshopper
- (3) Monkey, goat, whale
- (4) Frog, lizard, mosquito

2. Study the flow chart below.



Which of the following animals can be represented by A, B and C ?

	A	B	C
(1)	Penguin	Whale	Turtle
(2)	Swan	Lobster	Eel
(3)	Ostrich	Monkey	Dolphin
(4)	Parrot	Penguin	Whale

3. Which of the following products are made of an outer covering of animals ?

- A) cotton shirt
- B) shuttlecock
- C) leather bag
- D) rubber tyres

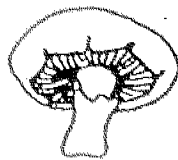
- (1) A and D only
- (2) B and C only
- (3) A, B and C only
- (4) B, C and D only

4. If a hen lays an egg and sits on it on 7 April, when would the egg hatch ?

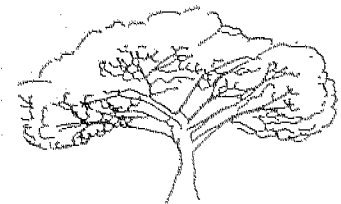
- (1) 14 April
- (2) 28 April
- (3) 7 May
- (4) 21 May

5. Which of the following has a weak stem ?

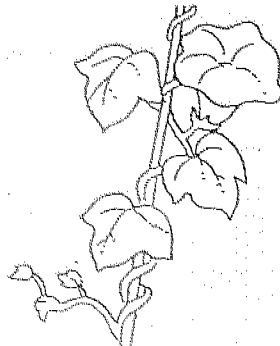
(1)



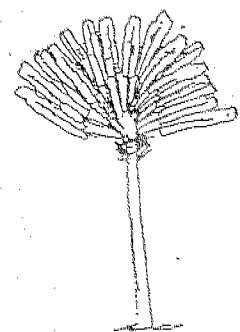
(2)



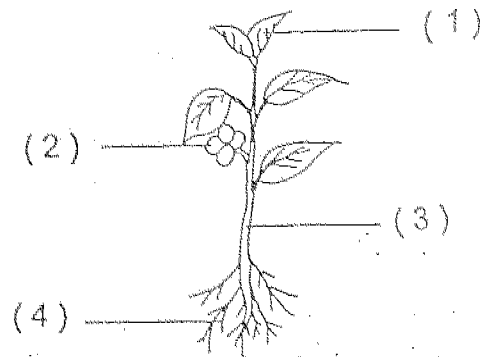
(3)



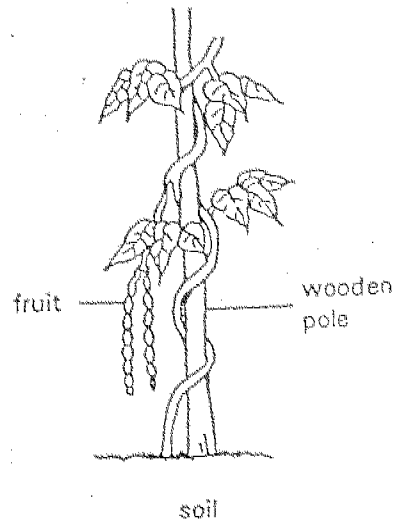
(4)



6. Which part of the plant will become a fruit ?



7. The diagram below shows a plant growing in the garden.



Which of the following statements is/are correct ?

- (A) This plant has roots.
- (B) This plant has a weak stem.
- (C) This plant is a flowering plant.

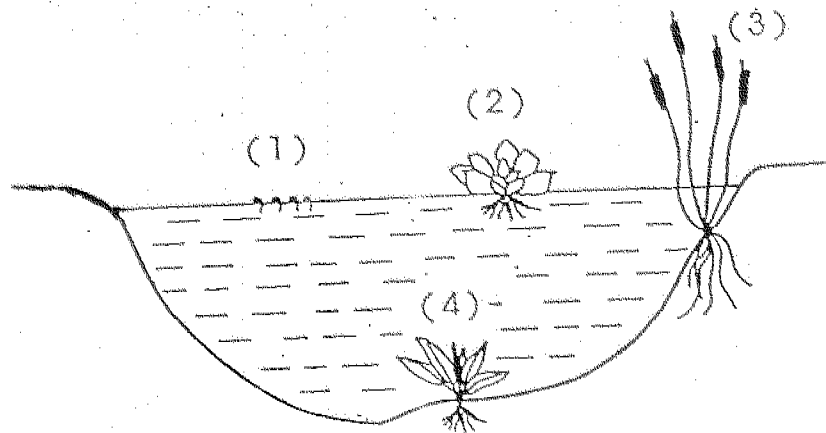
- (1) B only
- (2) A and B only
- (3) A and C only
- (4) A, B and C

8. Which of the following characteristics of fruits are correct ?

Fruits	Characteristics
Pong Pong	Edible, dry and light
Casuarina	Inedible, dry and light
Watermelon	Edible, fleshy and heavy
Coconut	Inedible, fleshy and heavy

- (1) Pong Pong and Casuarina only
- (2) Casuarina and Watermelon only
- (3) Watermelon and Coconut only
- (4) Pong Pong and Coconut only

9. Which of the plants below is partially submerged in water ?

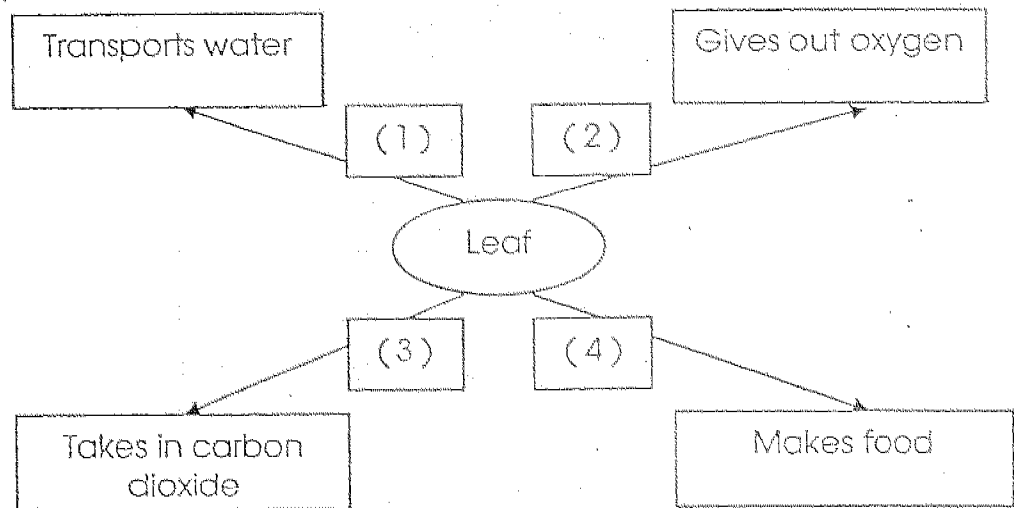


10. Which of the following statements are true about the functions of the stem of a plant ?

- A) It carries water and minerals from the roots to the leaves and other parts of the plant
- B) It takes in water vapour from the air
- C) It supports the branches and the leaves
- D) It carries food from the leaves to other parts of the plant

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

11. Study the concept map below.



Which of the above is incorrect ?

12. Which of the following can make its own food ?

- A) pitcher plant
- B) mushroom
- C) stag's horn fern
- D) moss

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

13. What does a seed need before it can germinate ?

- (1) Air
- (2) Water
- (3) Nutrients
- (4) Sunlight

14. Which statements about fungi are true ?

- (A) Fungi cause decay of food
- (B) Fungi cannot make their own food
- (C) Some fungi can be eaten by humans
- (D) Some fungi can grow on human skin

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

15. Below are four statements made by Tom, Dick, Harry and William while walking in a park.

- (1) Tom : Look at the beautiful red flowers !
- (2) Dick : Ouch ! Something bit me and it has wings.
- (3) Harry : Where is the bad smell coming from ?
- (4) William : Can you hear that, the clap of the thunder ?

Which of the children used more than one sense organ ?

16. Most pots have handles made of plastic. This is because plastic \_\_\_\_\_.

- (1) is waterproof
- (2) is soft and nice to touch
- (3) does not heat up easily
- (4) does not change colour easily

17. Changes take place at different rates. Arrange the four changes listed below from the slowest to the fastest.

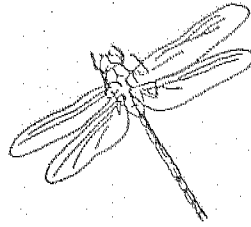
- (A) The change in season
- (B) The change from day to night
- (C) The hatching of a chick from an egg
- (D) The inflation of a balloon

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

18. How are the butterfly and the cricket similar ?

- (1) Both have 3-stage life cycles.
- (2) Both have 4-stage life cycles.
- (3) Both lay eggs in the water.
- (4) Both lay eggs on land.

19. Which of the following shows the life cycle of the animal below ?



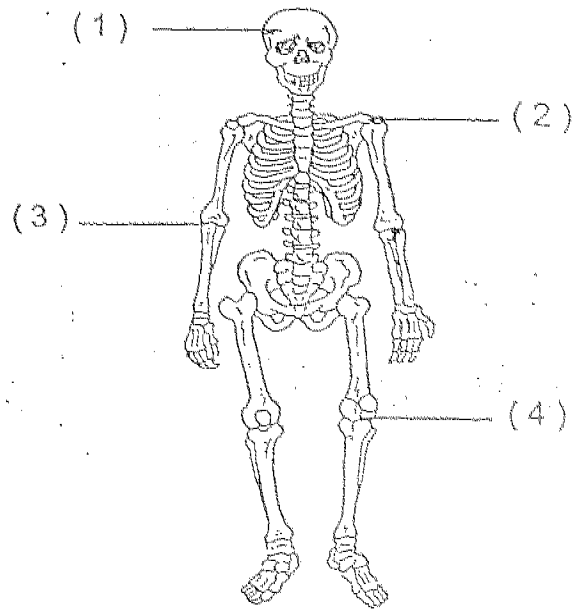
- (1) Egg → nymph → adult
- (2) Egg → larva → adult
- (3) Egg → nymph → pupa → adult
- (4) Egg → larva → pupa → adult

20. Which is the largest organ in the human body ?

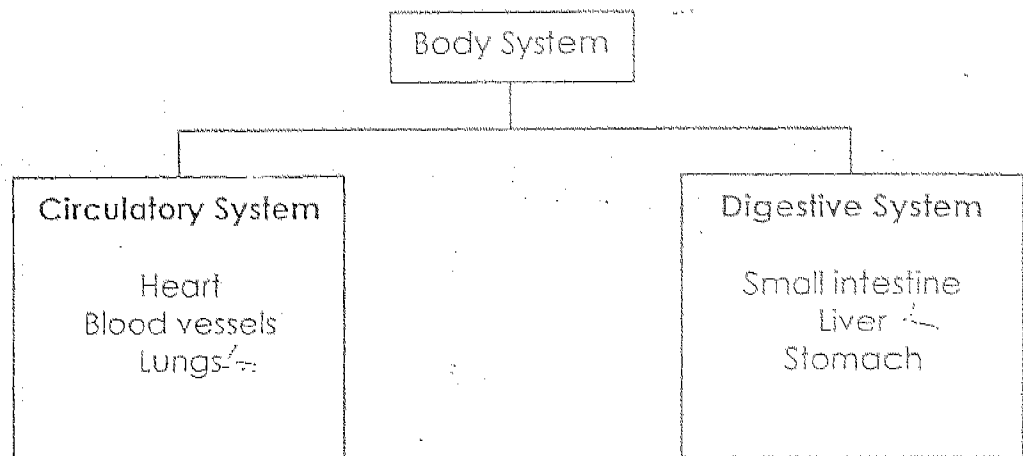
- (1) lungs
- (2) skin
- (3) heart
- (4) brain



21. Which part of the body has the same kind of joint as the hip joint?



22.



Which of the following have been wrongly classified ?

- A) Blood vessels
- B) Liver
- C) Lungs
- D) Heart

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

23. Which of the following functions are performed by the stomach ?

- A) Breaking down of food
- B) Adding digestive juices to the food
- C) Forcing the food out into the small intestine
- D) Forcing the digested food into the large intestine

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

24. Peter had just taken his lunch. Which of the following shows the path the food would take ?

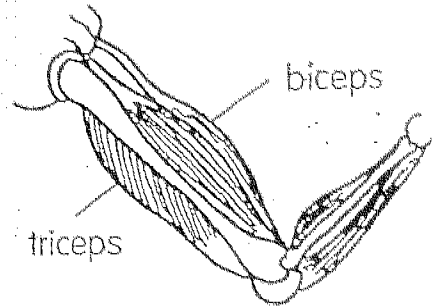
- ( 1 ) mouth → gullet → stomach → small intestine → large intestine → anus
- ( 2 ) mouth → gullet → stomach → large intestine → small intestine → anus
- ( 3 ) mouth → windpipe → stomach → large intestine → small intestine → anus
- ( 4 ) mouth → windpipe → stomach → small intestine → large intestine → anus

25. Which of the following is/are true about the skull and the ribcage ?

- ( A ) They protect the delicate organs in the body
- ( B ) They control the movement of the body
- ( C ) They give the body its shape
- ( D ) The skull forms a ball and socket joint while the ribcage forms an immovable joint

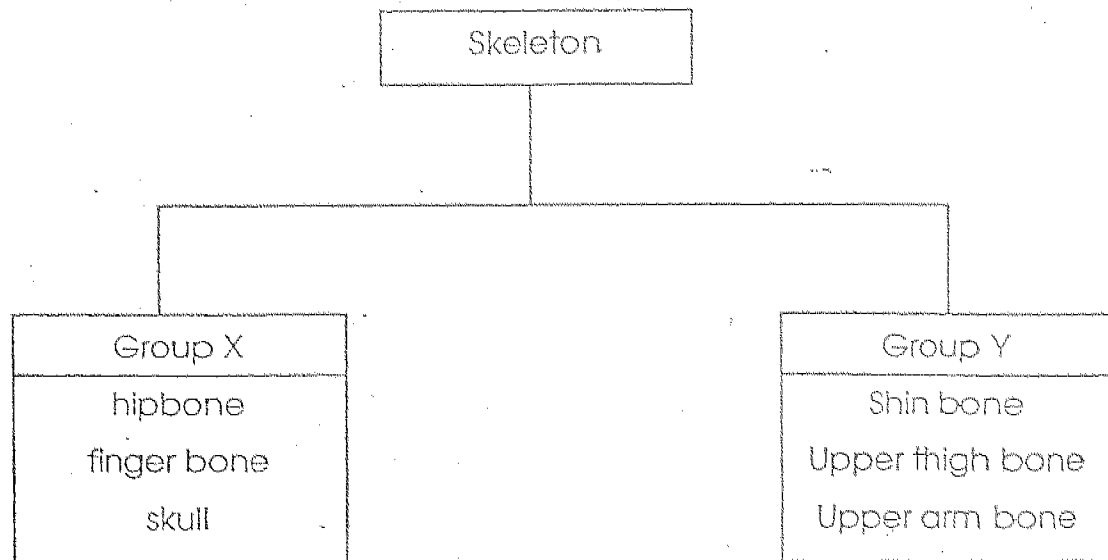
- ( 1 ) B only
- ( 2 ) D only
- ( 3 ) A and C only
- ( 4 ) B and D only

26. Which of the following will take place when Joe bends his arm as shown below ?



- (1) His biceps relax
- (2) His triceps contract
- (3) His biceps contract and his triceps relax
- (4) His biceps relax and his triceps contract

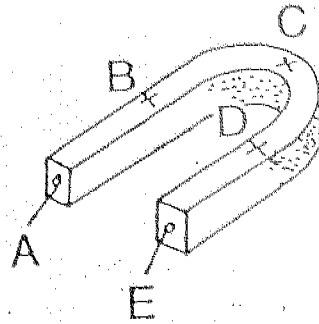
27. Look at the classification table below.



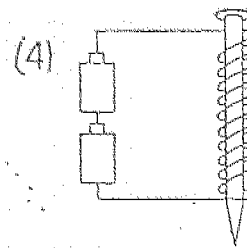
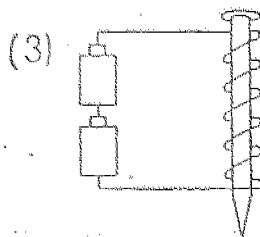
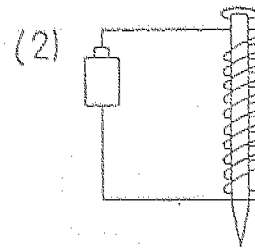
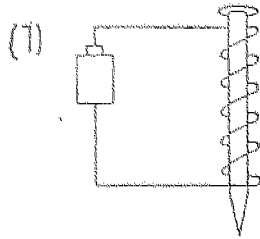
Which of the following is wrongly grouped ?

- (1) hipbone
- (2) shin bone
- (3) finger bone
- (4) skull

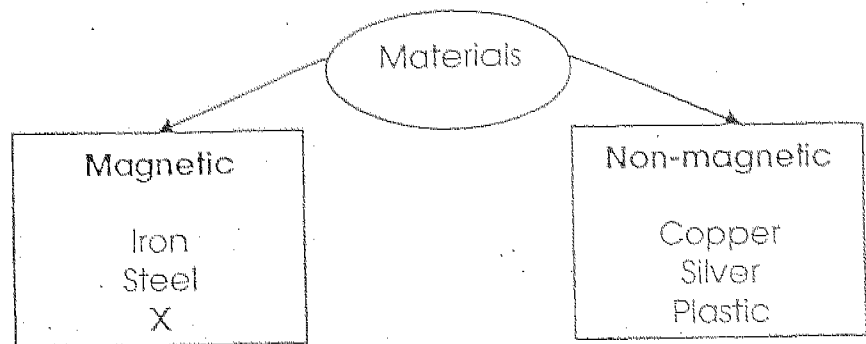
28. Which parts of the magnet below can attract the most number of paper clips ?



- (1) C only  
 (2) B and D only  
 (3) A and E only  
 (4) B, C and D only
29. Which magnetised iron nail in the following diagrams attracts the least number of paper clips ?



30. Study the classification below.



What is X likely to be ?

- (1) Gold
- (2) Aluminium
- (3) Rubber
- (4) Nickel

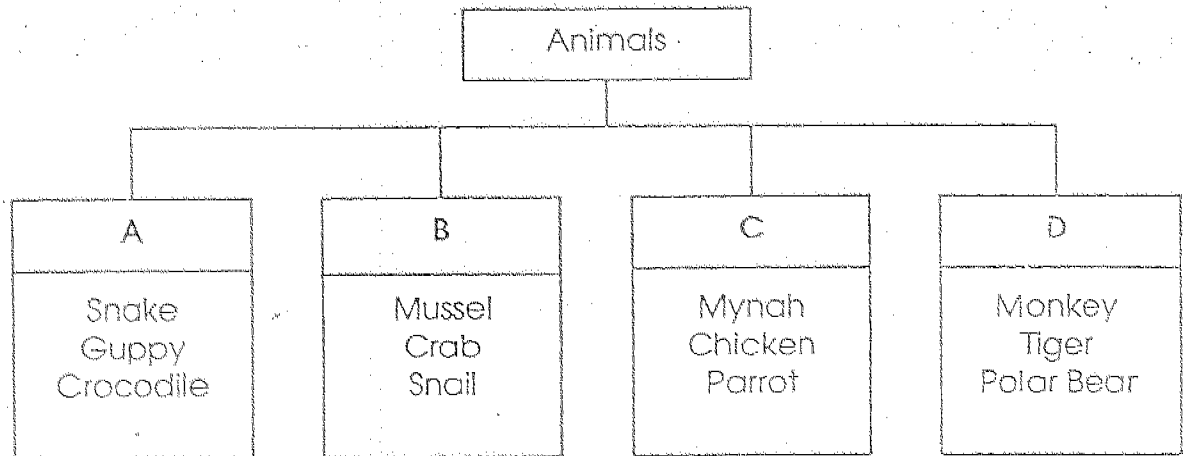
Name : \_\_\_\_\_ ( )

Class : P 3 ( )

Section B : ( 40 marks )

Write your answers in the spaces provided.

31. Study the classification chart below carefully.



(a) How are the above animals classified? (1 mark)

(b) Which group (A, B, C or D) would you put the scallop under? (1 mark)

32. Write "True" or "False" in the blanks provided. (2 marks)

(a) All insects have two pairs of wings. \_\_\_\_\_

(b) Not all birds can fly. \_\_\_\_\_

(c) The leaves of a plant take in carbon dioxide and give out oxygen all the time. \_\_\_\_\_

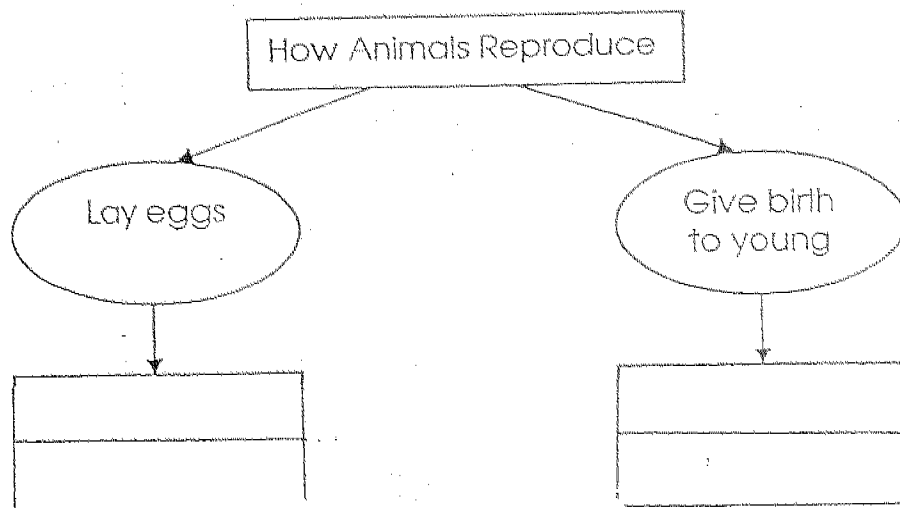
(d) A paper plate and a leather bag are made from something that is once alive. \_\_\_\_\_

33. An insect has six legs. The three main body parts consist of the \_\_\_\_\_, the \_\_\_\_\_ and the \_\_\_\_\_. (3 marks)

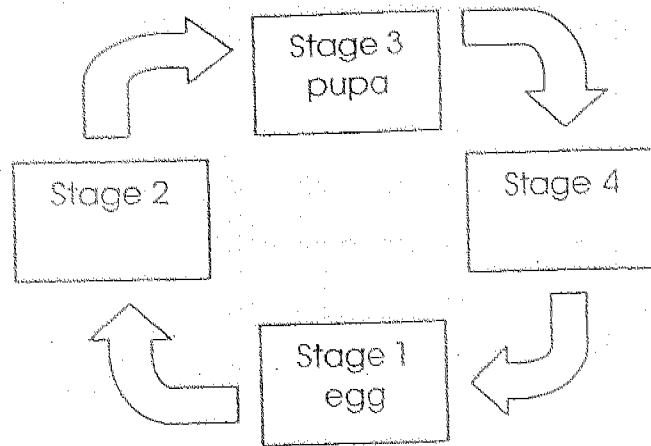
34. Fishes is a group of animals that live in water. Fishes have \_\_\_\_\_ to help them breathe in water. The \_\_\_\_\_ and tail enable them to swim. Fishes have \_\_\_\_\_ to protect their bodies. (3 marks)

35. Classify the following animals correctly. (2 marks)

spiny anteater    guppy    swordtail    platypus



36.



The diagram above shows the life-cycle of an animal.

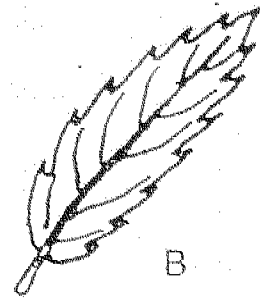
(a) Name Stage 2. (1 mark)

\_\_\_\_\_

(b) If a caterpillar is at Stage 2, what is the adult likely to be? (1 mark)

\_\_\_\_\_

37. Look at the pictures below. Based on what you see only, list one similarity and one difference between the two leaves.

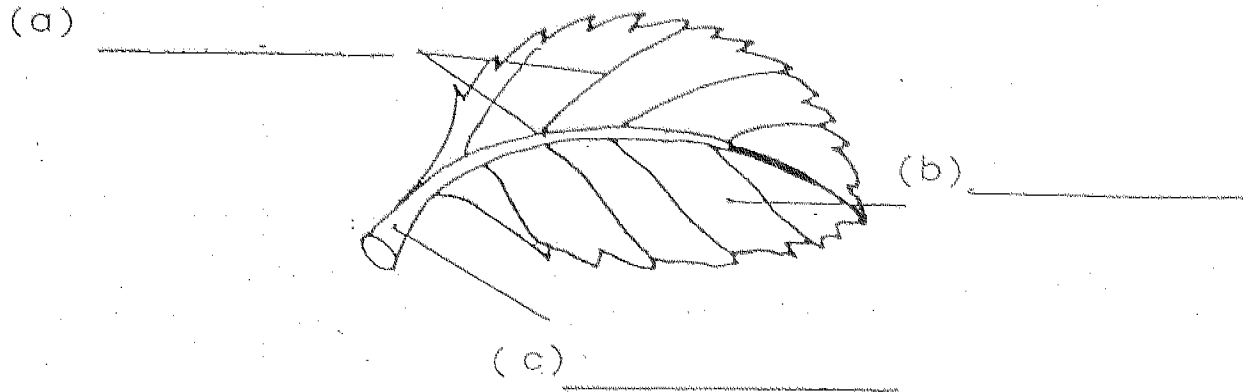


(a) Similarity : \_\_\_\_\_ (1 mark)

(b) Difference : \_\_\_\_\_ (1 mark)



38. Label the parts of the leaf below. (3 marks)

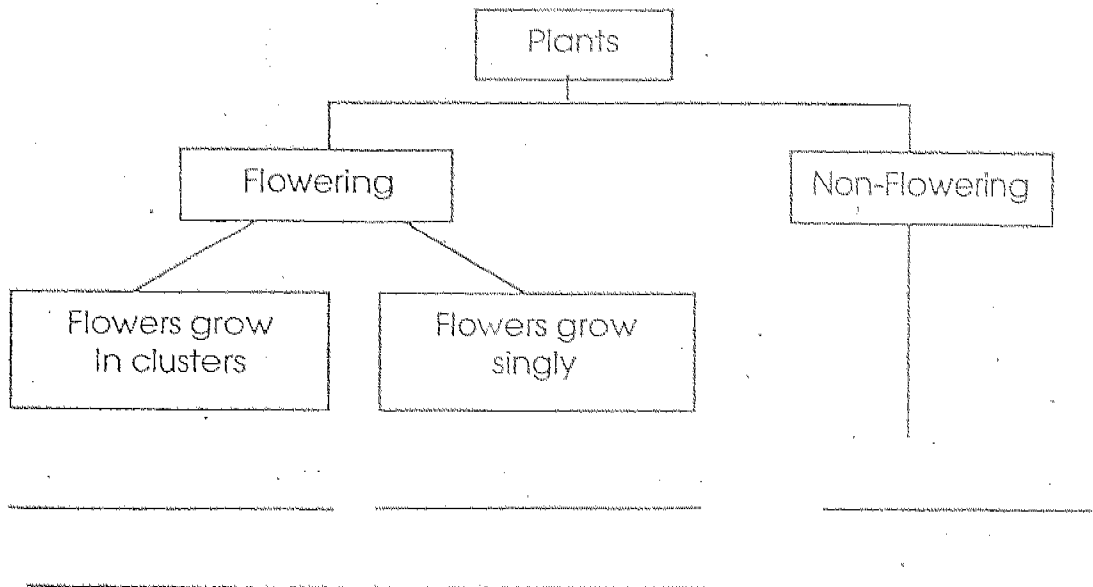


(d) Name the green substance found in the leaves. (1 mark)

\_\_\_\_\_

39. Group the following plants in the classification table below. (3 marks)

rafflesia	moss	frangipani	jasmine	fern	rose
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40. (a) Which group of organisms do bracket fungus and shitake mushroom belong to? (1 mark)

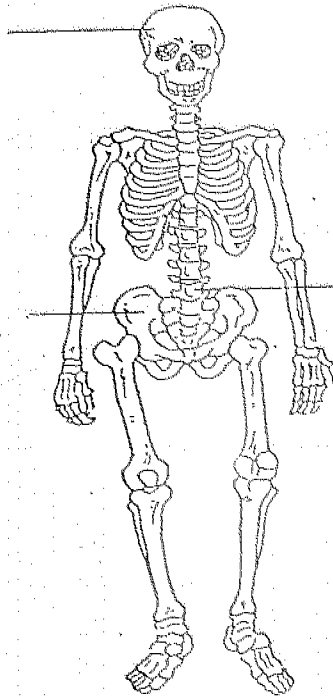
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(b) How do they reproduce? (1 mark)

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41. Label the parts of the skeletal system below. (3 marks)

(a) \_\_\_\_\_



(c) \_\_\_\_\_

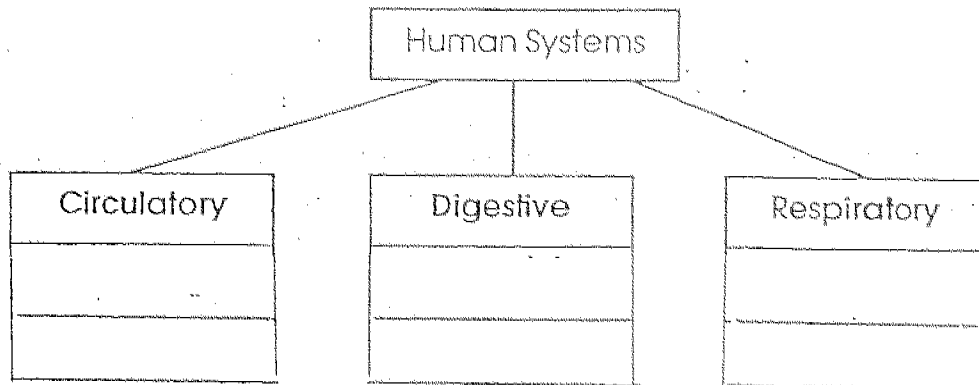
(b) \_\_\_\_\_

(d) Why is part (a) important to our human body? (1 mark)

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42. Group the parts of our body below. (3 marks)

windpipe	lungs	mouth
gullet	heart	blood



43. Study the table below.

Type of material	Heavy	Strong	Good conductor of heat
D	No	No	No
E	No	Yes	Yes
F	Yes	Yes	No

Which material should you use to make a pot for cooking? Why?  
(2 marks)

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44. Ahmad stroked a copper nail with a strong magnet in the same direction many times. Next, he put some paper clips near the copper nail.

(a) Will the paper clips be attracted to the copper nail?

(1 mark)

\_\_\_\_\_

(b) Support your answer in (a) (1 mark)

\_\_\_\_\_

\_\_\_\_\_

45. Name two actions which can cause a temporary magnet to lose its magnetism.

(a) \_\_\_\_\_ (1 mark)

(b) \_\_\_\_\_ (1 mark)

46. Name two actions which can increase the strength of an electromagnet.

(a) \_\_\_\_\_ (1 mark)

(b) \_\_\_\_\_ (1 mark)

End of Paper

SAR

TAO NAN SCHOOL  
PRIMARY THREE SCIENCE  
END OF THE YEAR EXAMINATION 2004

- 1) 3            28) 3            29) 1            30) 4
- 2) 1            31) a) They are classified by their outer covering.  
              b) B
- 3) 2
- 4) 2            32) a) False            b) True            c) False            d) True
- 5) 3            33) head            thorax            abdomen
- 6) 2            34) gills            fins            scales
- 7) 4            35) spiny anteater            swordtail  
              platypus                                    guppy
- 8) 2            36) a) Larva            b) A butterfly
- 9) 3            37) a) They both have veins.  
              b) A has an entire edge, B has a jagged-tooth edge.
- 10) 2
- 11) 1            38) a) veins            b) leaf blade            c) leaf stalk  
              d) Chlorophyll
- 12) 3
- 14) 2            39) jasmine            rose            fern  
              frangipani            rafflesia            moss
- 14) 4
- 15) 2            40) a) They belong to the group of fungi.  
              b) They use spores to reproduce.
- 16) 3            41) a) skull            b) backbone            c) hip bone  
              d) It protects the brain.
- 17) 1
- 18) 4            42) heart            mouth            lungs  
              blood            gullet            windpipe
- 19) 1
- 20) 2            43) Material E, it is a good conductor of heat. It is  
              strong and it is not heavy.
- 21) 2            44) a) No  
              b) It is a non-magnetic material.
- 22) 3
- 23) 3            45) a) Heating it  
              b) Dropping it many times.
- 24) 1
- 25) 3            46) a) Adding more batteries.  
              b) Adding more coils.
- 26) 3
- 27) 3