

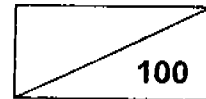
C21

NANYANG PRIMARY SCHOOL
PRIMARY 5 SCIENCE
FIRST CONTINUAL ASSESSMENT 2004

Name : _____ () Date : _____

Class : Primary 5 () Duration : 1 h 45 min

Parent's signature: _____ Score :



Section A (30 x 2 marks = 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 your choice on the Optical Answer Sheet provided.

1. Study the table below carefully.
Which one of the following matter is described correctly?

Type of Matter	Properties		
	Definite shape	Definite volume	Occupies space
(A) Iron ball	No	Yes	Yes
(B) Cooking oil	No	No	Yes
(C) Sand grain	Yes	Yes	Yes
(D) Cotton wool	No	Yes	No

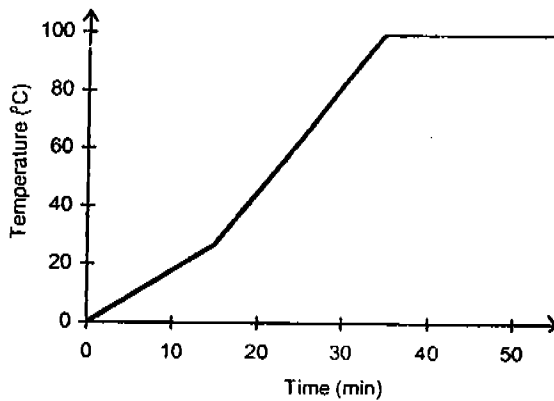
2. Which one of the following actions **does not** help to conserve water?

- ~~(A)~~ Collecting rainwater to wash floors.
~~(2)~~ Washing dishes under a running tap.
~~(B)~~ Using recycled water to cool factory machines.
~~(D)~~ Watering plants using water which was used to rinse rice.

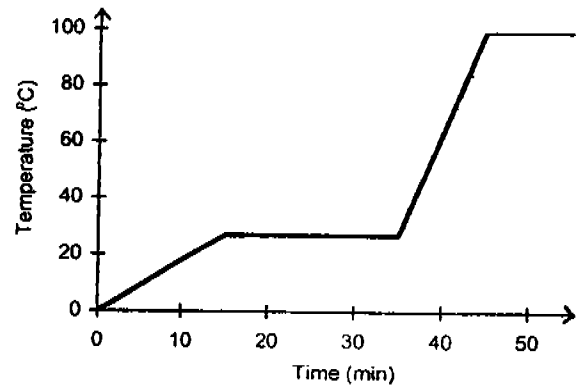
Study the following scenario to answer Questions 3 and 4.

A beaker of ice was taken out from the freezer and placed on a table at room temperature (27°C). After the ice had melted completely in 15 minutes, the water in the beaker was left standing on the table for 20 minutes. Then it was heated until it boiled.

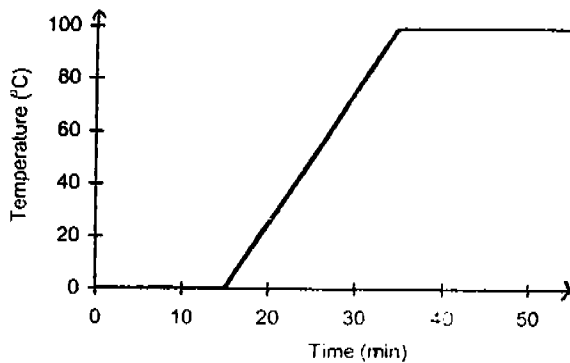
3. Which one of the following graphs below illustrates the temperature change of water from the time the beaker was taken out from the freezer to the time the water boiled?



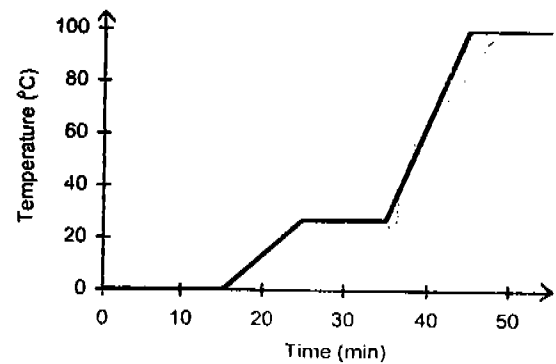
~~A~~



~~B~~



~~C~~



~~D~~

4. Which of the following statements correctly describe the exchange of heat that had taken place? :

- ~~A~~ The beaker of ice took in heat from the surroundings for melting to take place.
- ~~B~~ The beaker of ice lost heat to the surroundings for melting to take place.
- ~~C~~ The beaker of water took in heat for boiling to take place.
- ~~D~~ The beaker of water lost heat for boiling to take place.

(1) A and C

(2) A and D

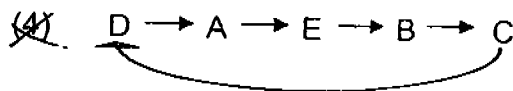
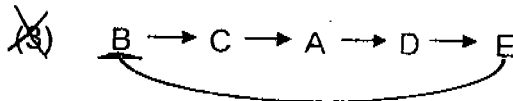
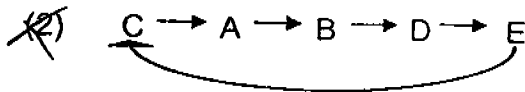
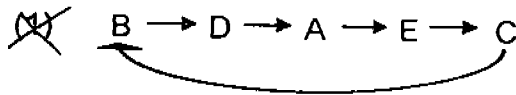
(3) B and C

(4) B and D

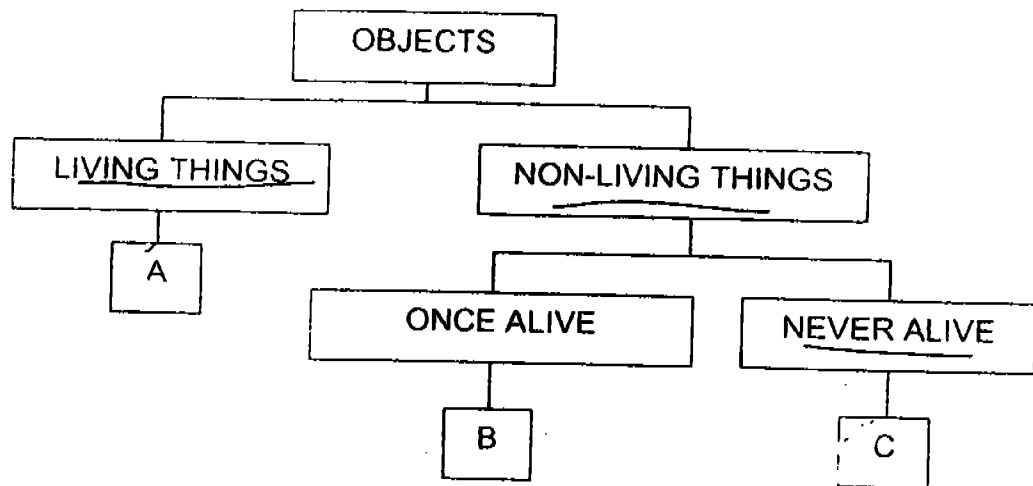
5. The following statements describe the different stages of the water cycle.

- A Droplets of water form clouds
- B Heat energy from the Sun warms the Earth.
- C Water evaporates.
- D Condensation occurs.
- E When the water droplets become bigger, rain falls back to the Earth.

Which one of the following is a correct representation of the water cycle?



6. Study the classification diagram as shown below carefully.



Which one of the following pairs represents 'A' and 'C' correctly?

	A	C
(1)	silkworm	magazine
(2)	moss	glass bottle
(3)	mushroom	leather boots
(4)	guppy	toadstool

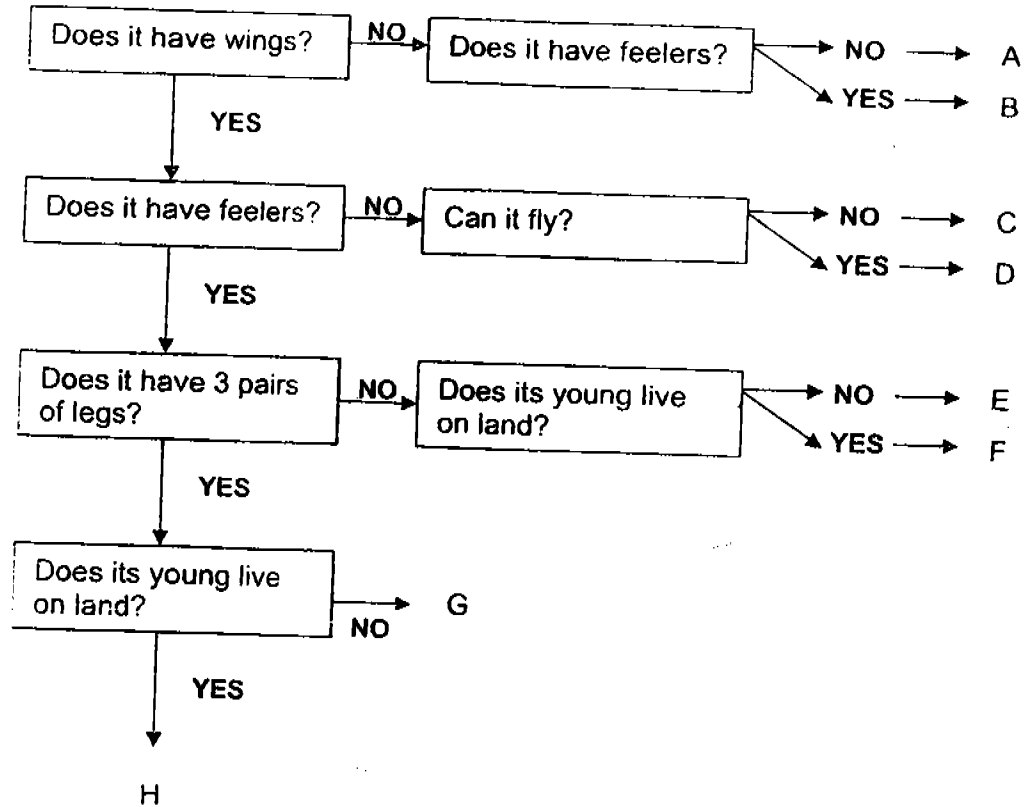
7. In what way is a fern similar to a mushroom?

- ~~(1)~~ Both produce flowers.
~~(2)~~ Both make their own food.
~~(3)~~ Both reproduce from spores.
~~(4)~~ Both cause decay to dead organisms.

8. Which one of the following statements is **not** correct?

- (1) All fishes have scales and lay eggs.
~~(2)~~ All birds have feathers and lay eggs.
~~(3)~~ All insects have six legs and lay eggs.
~~(4)~~ All mammals have hair and feed their young milk.

9. Study the flow chart below.



Which of the following animals are grouped correctly?

	Animal			
	A	C	D	G
<input checked="" type="checkbox"/> 1)	chicken	ostrich	parrot	mosquito
<input checked="" type="checkbox"/> 2)	anteater	ostrich	eagle	mosquito
<input checked="" type="checkbox"/> 3)	spider	emu	pigeon	frog
<input checked="" type="checkbox"/> 4)	mouse	ant	parrot	mosquito

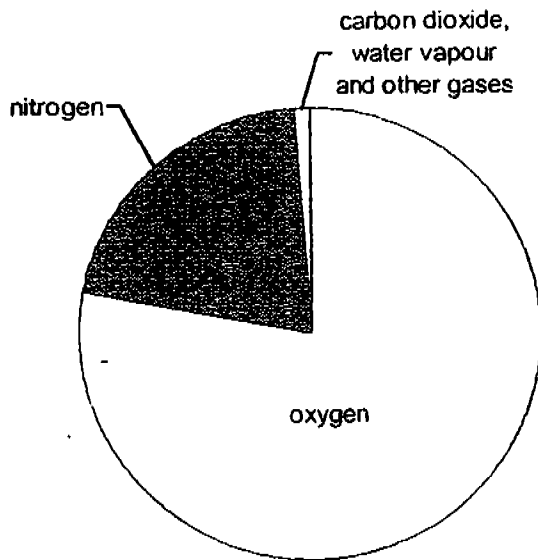
10. Which of the following statements are true?

- A All the planets in the Solar System reflect light from the Sun.
- B The surface temperature of Neptune is lower than the surface temperature of the Earth.
- C The larger the planet, the longer it takes to rotate about its own axis.
- D The smaller the planet, the shorter it takes to revolve around the Sun.

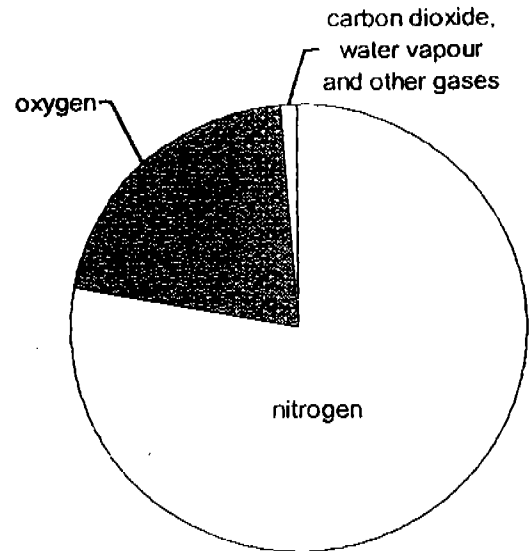
- (1) A and B only
 (3) A, B and C only

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

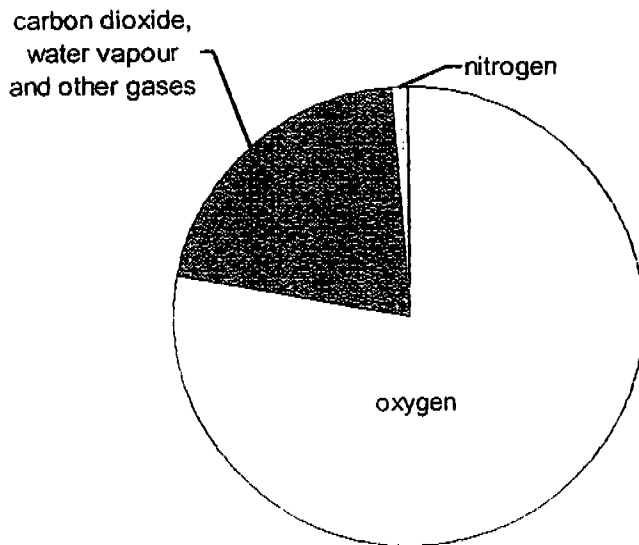
11. Which one of the following is a representation of the composition of air in the Earth's atmosphere?



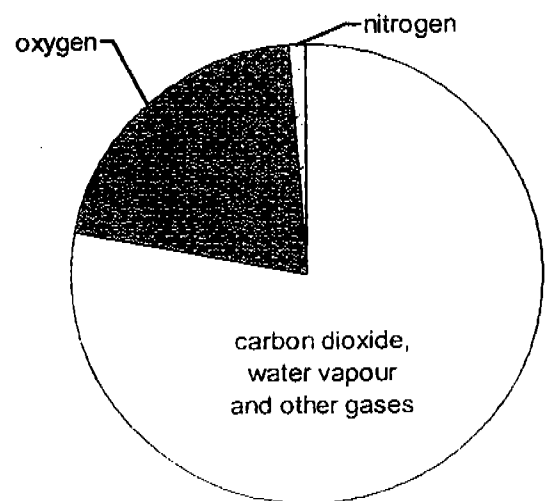
(1)



(2)



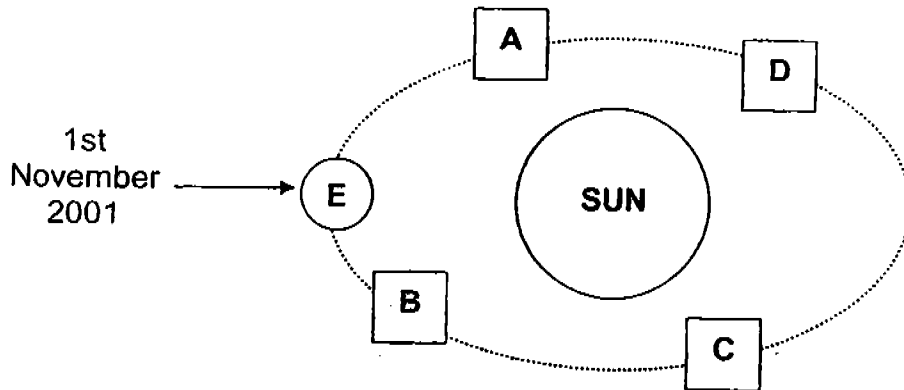
(3)



(4)

Study the diagram below to answer Questions 12 and 13.

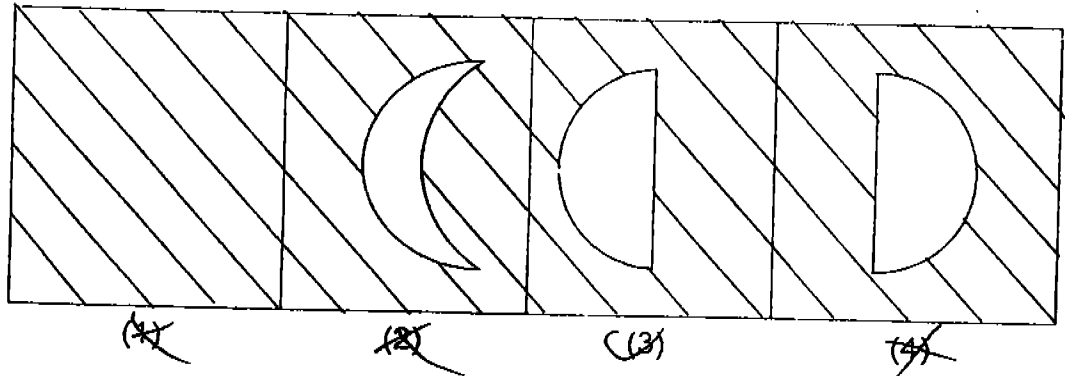
The diagram shows the position of the Earth (E) on 1st November 2001.



12. At which position would the Earth be on 29th February 2004?
- (1) A (2) B
(3) C (4) D
13. How many complete revolutions had the Earth made from 1st November 2001 to 29th February 2004?
- (1) 2 (2) 3
(3) 27 (4) 850
14. Which of the following statements about the Moon are incorrect?
- ~~A~~ The Moon rotates about its own axis.
~~B~~ We can see a full moon on the fifteenth day of every lunar month because the whole Moon is lit up by the Sun.
~~C~~ The moon takes 28 weeks to complete 1 revolution.
~~D~~ The Earth's gravitational pull is six times that of the Moon.
- (1) A and B only (2) A and D only
(3) B and C only (4) B, C and D only

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15. If a full moon is observed today, which phase of the moon will be observed 7 days later?



16. Which of the following is / are unicellular (single-cell) organisms?

- ~~A~~ flower bud
~~B~~ yeast
~~C~~ amoeba
 D bacteria

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

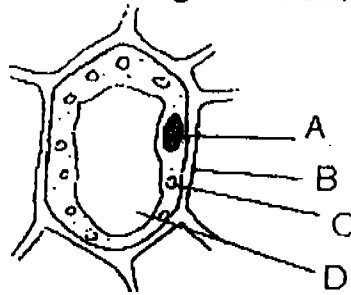
17. Which part of a cell controls the types of substances that are to be manufactured in the cell?

- (1) nucleus
 (2) cytoplasm
 (3) cell wall
 (4) cell membrane

18. The cell membrane allows _____.

- (1) only some substances to move in and out
 (2) only oxygen to move in and carbon dioxide to move out
 (3) substances to move in but does not allow any substances to move out
 (4) waste substances to move out but does not allow any substances to move in

19. Observe the cell in the diagram as shown below.



Which part of the plant contains chlorophyll?

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

20. Which of the following statements about cells is / are correct?

- A All cells have nuclei.
 B All cells have vacuoles (central cavities).
 C Cell wall is present in all plant cells.
 D After cell division, each of the daughter cells has a smaller nucleus than the original parent cell.

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

21. After a person has suffered a cut on his finger, which of the following statement(s) describes / describe the cells in his finger?

- A The damaged cells will grow into new cells.
 B The damaged cells will be replaced by new cells.
 C The cells in the finger will not be affected by the cut.

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

22. Which of the following part(s) of our body is/are made up of dead cells only?
- A earlobe
 B tip of the nail
 C skin
- (1) B only
 (2) C only
 (3) A and B only
 (4) B and C only
23. Which one of the following is the smallest unit of life?
- (1) cell
 (2) organ
 (3) nucleus
 (4) genes
24. What can Jia Cong use to observe a sample of cheek cells?
- (1) microscope
 (2) magnifying glass
 (3) naked eyes
 (4) telescope
25. Rahim observed some leaf cells of a withering balsam plant. What substances could have been lost from the vacuoles of the plant cells to have caused the above observations?
- (1) air
 (2) sap
 (3) cytoplasm
 (4) chloroplast
26. Animals have many types of cells. They are different in _____.
- A size
 B shape
 C function
- (1) A only
 (2) A and B only
 (3) B and C only
 (4) A, B and C

27. Parents pass their traits to their offsprings through their _____.

- | | |
|-----------------|---------------|
| (1) cellulose | (2) cytoplasm |
| (3) chloroplast | (4) genes |

28. When the characteristics from parents are passed to their young, it is known as _____.

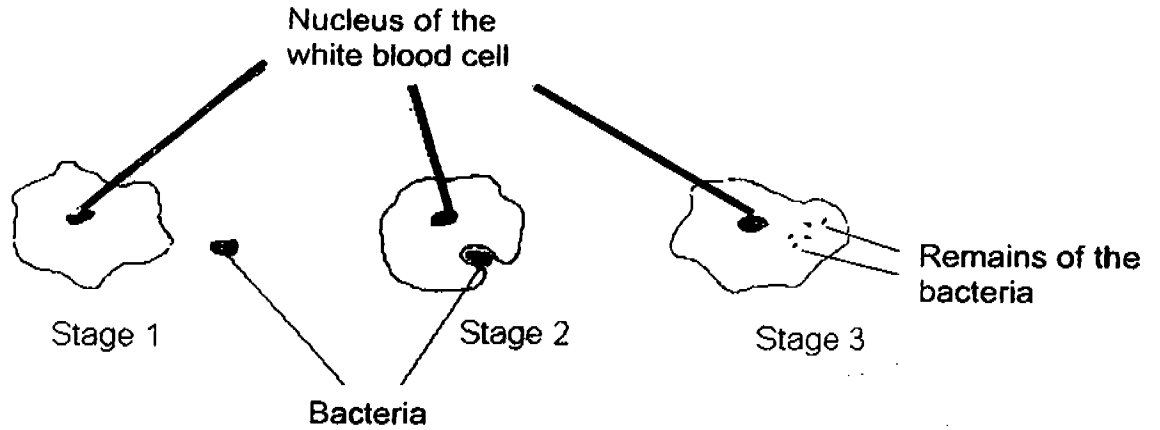
- | | |
|-----------------|-------------------|
| (1) heredity | (2) character |
| (3) resemblance | (4) fertilization |

29. Which of the following sentences about cell division are correct?

- A The cell needs to reach its optimal size before it can divide.
- B The cell membrane has to grow first before the cell can divide.
- C The cytoplasm has to increase in mass before the cell can divide.
- D The organism has to reach its adult stage before the cell can divide.

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

30. The white blood cells are responsible for fighting diseases in our body. Study the diagram below which shows a white blood cell at work when bacteria enter the body.



What conclusions can you draw from the diagram above?

- ~~A~~ The white blood cell can change its shape.
- ~~B~~ The white blood cell is bigger than red blood cell.
- ~~C~~ The white blood cell is more important than the red blood cell.
- ~~D~~ The white blood cell kills the bacteria.

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

Name : _____ / _____) Date : _____

Class : Primary 5 (_____)

Section B (40 marks)

Write your answers to questions 31 to 46 in the spaces provided.
Marks will be deducted for misspelt key words.

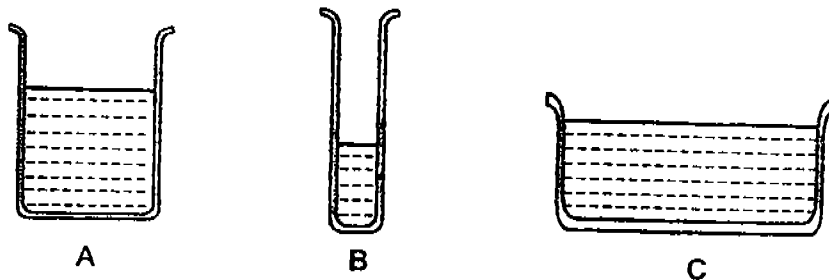
31. Classify the following objects into the correct group. (2 marks)

thunder	steam	wind	shadow
---------	-------	------	--------

Matter

Non-matter

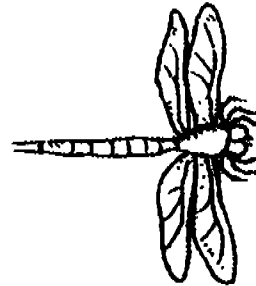
32. Alan set up an experiment as shown below to study the rate of evaporation in 3 containers A, B and C. He poured different amount of water into each of the containers and left them in the open for a day.



- (a) List 1 variable that he had to keep constant to make his experiment a fair test. (1 mark)

- (b) What would he measure to determine the container with the highest rate of evaporation? (2 marks)

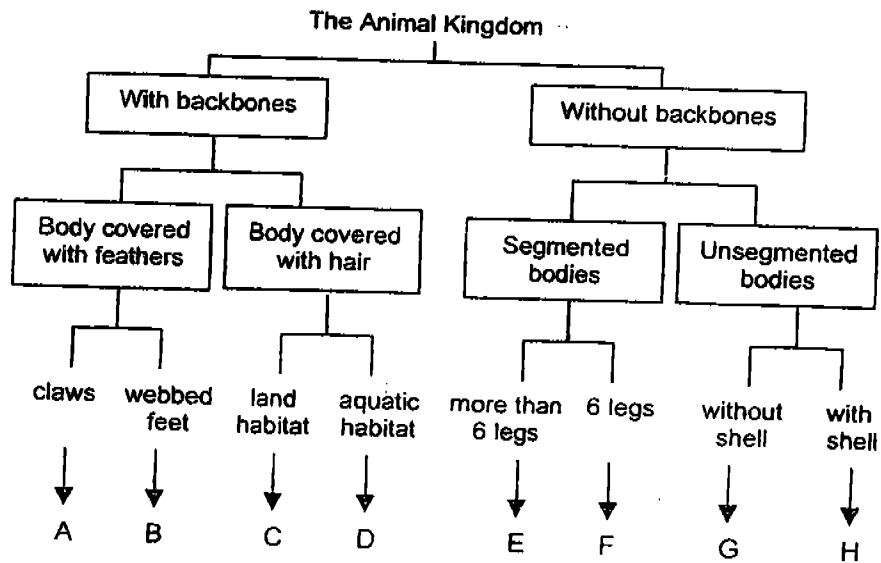
33. Study the diagram below.



Based on the diagram, state one **difference** between the two animals. (1 mark)

(Do not compare the colours and sizes of the animals.)

34. Study the classification chart as shown below.



Write down the correct letter which identifies the animals below. (2 marks)

- (a) Whale
- (b) Scorpion

35. Storage jars can be made of plastic or glass. What are 2 advantages plastic storage jars have over glass storage jars? (2 marks)

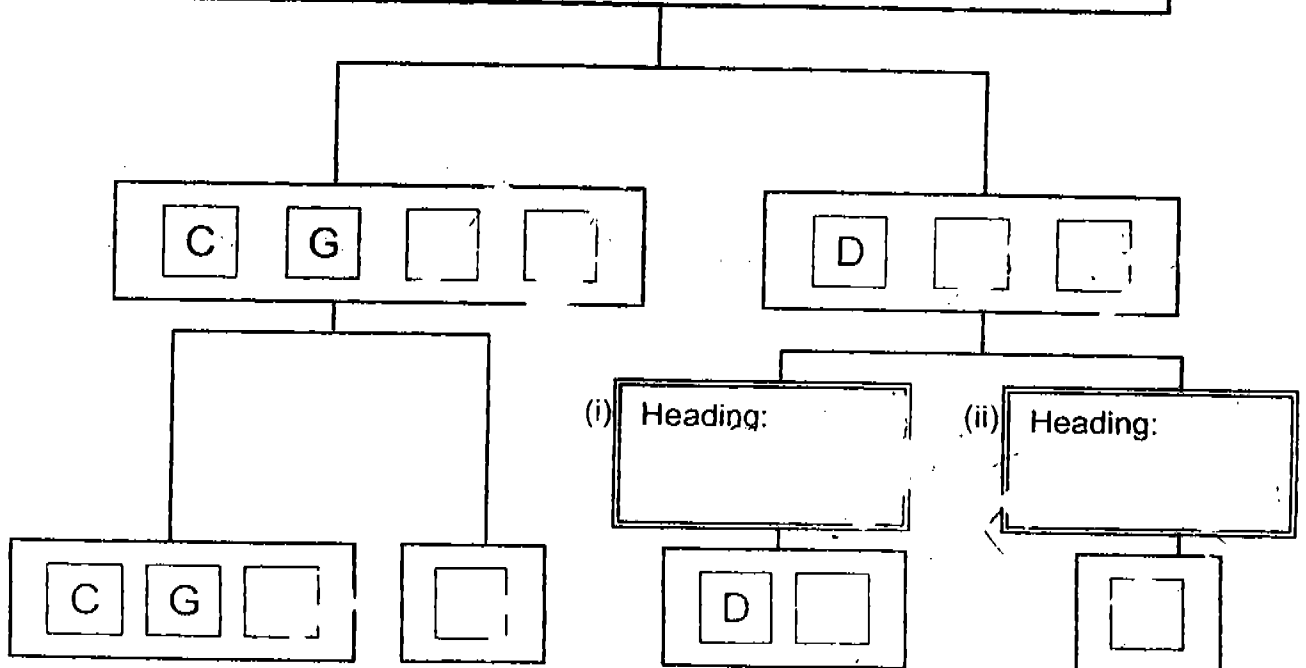
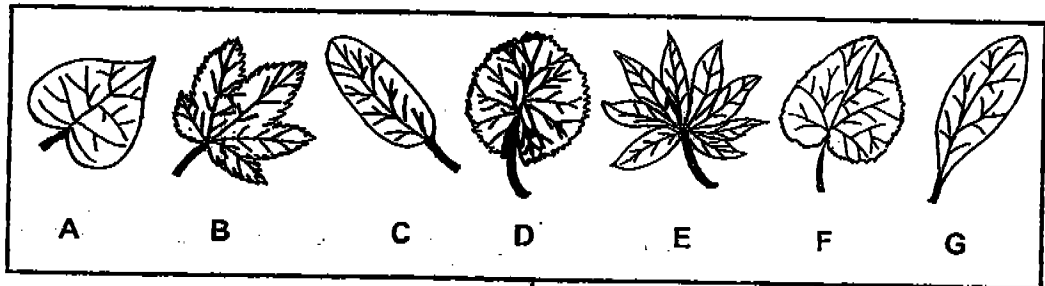
(a) _____

(b) _____

36. The diagram below shows a classification of 7 leaves.

(a) Complete the classification by writing the letter that represents each leaf in the boxes provided. (Leaves C, D and G had been classified.) (2 marks)

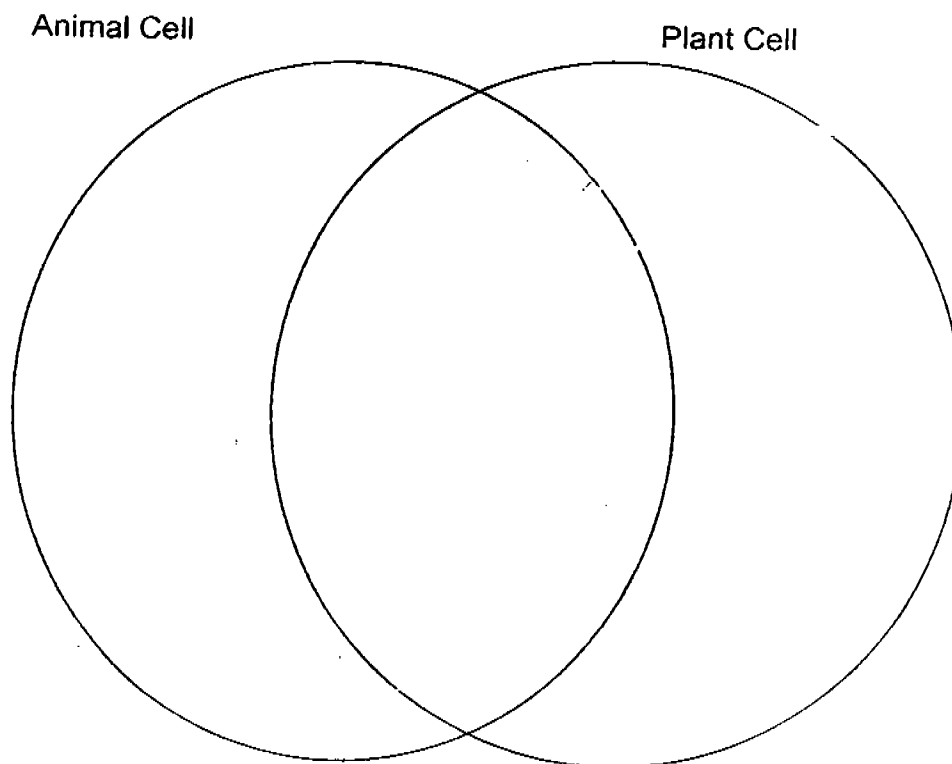
(b) Write a suitable heading in (i) and (ii) provided. (1 mark)



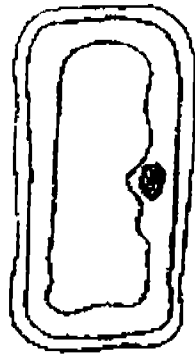
39. The table below shows some cell parts from both the plant and animal cells.

Cell Membrane
Cytoplasm
Nucleus
Cell Wall
Chloroplast

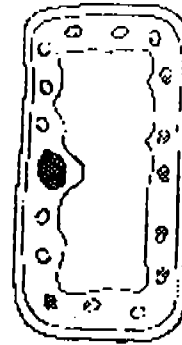
In the Venn diagram below, draw a dot (•) for each cell part to indicate its position clearly. (2 marks)



40. The diagrams below show 2 types of plant cells.



A



B

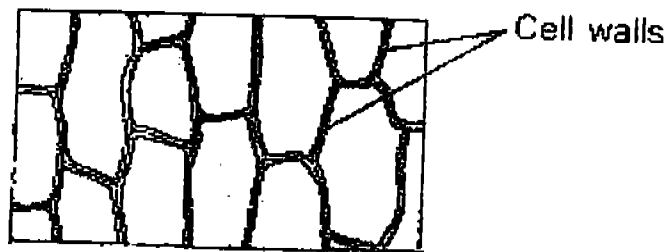
(a) Which one of the above cells is likely to be an onion cell? (1 mark)

.....

(b) Explain your answer in (a). (1 mark)

.....
.....

41. The diagram below shows some plant cells.



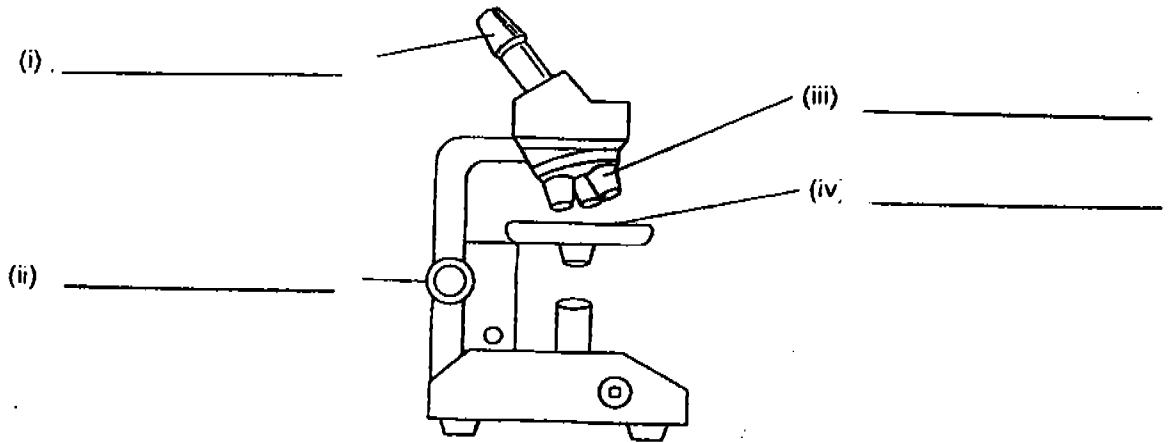
(a) Give a characteristic of the cell wall. (1 mark)

.....

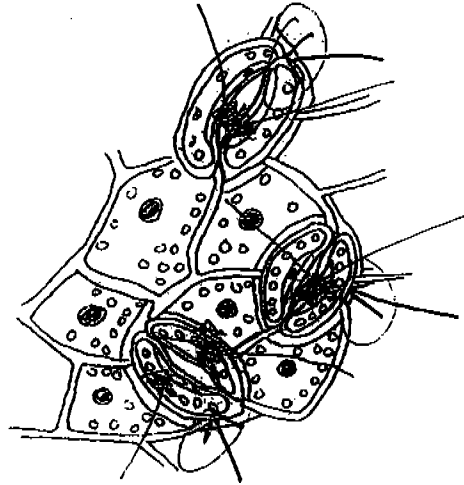
(b) Write down a function of the cell wall. (1 mark)

.....
.....

42. Study the picture of the microscope below and label the parts (i) to (iv).
(2 marks)



43. The diagram below shows some plant cells.



- (a) Draw arrows to point to all the stomata. (1 mark)
- (b) Which part of the plant do these cells belong to? (1 mark)

44. Study the table below which shows the traits of Mr. And Mrs. Chandra and their 3 children.

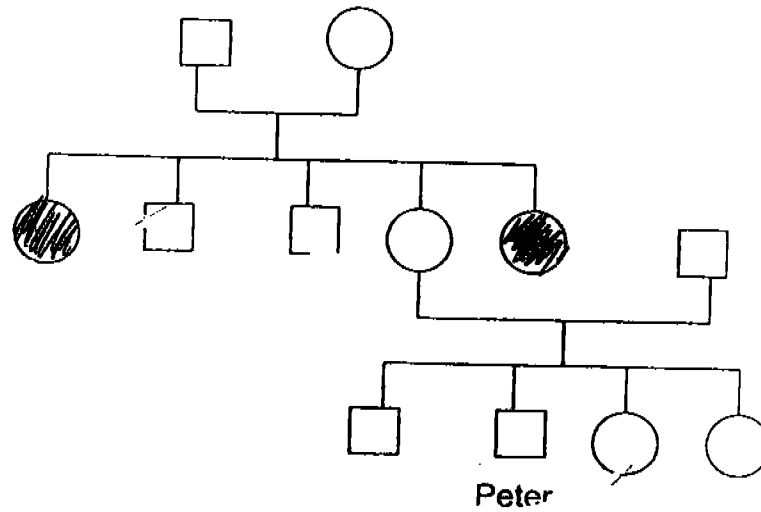
	Attached Ear Lobes	Curly Hair	Tongue Rolling
Mr. Chandra	✓	✓	✓
Mrs. Chandra	X	✓	X
Ramli	✓	✓	✓
Samy	✓	✓	✓
Devi	X	✓	✓

- (a) Which characteristic feature(s) has/have the three children inherited from both parents? (1 mark)

- (b) Who has/have inherited both attached ear lobes and tongue rolling from Mr. Chandra? (1 mark)

- (c) Name another physical feature which the children can inherit from their parents. (1 mark)

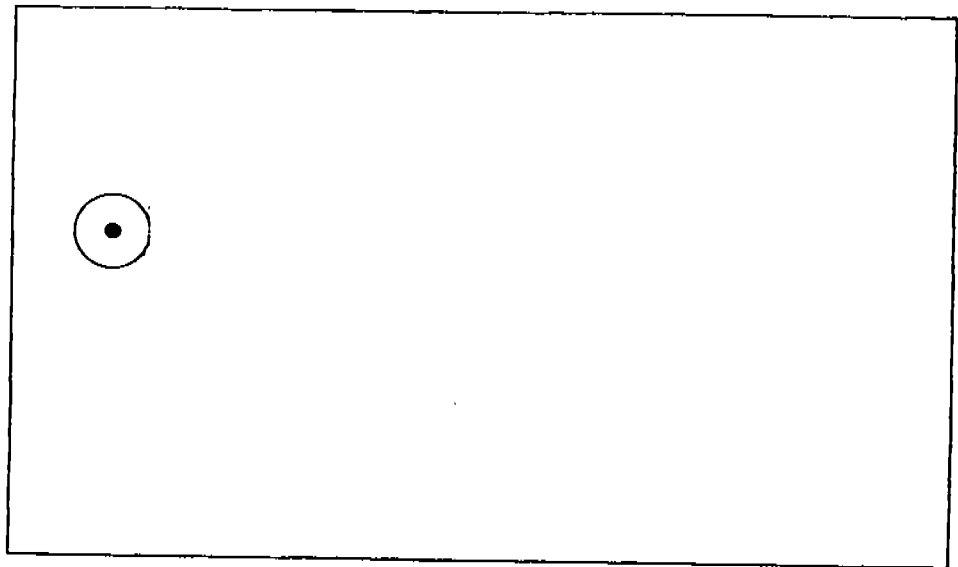
45. Study the family tree below.



- (a) Peter has drawn the ... side of his family. (1 mark)
- (b) In the family tree above, shade Peter's aunts. (1 mark)
- (c) How many brothers and sisters does Peter have? (1 mark)
-

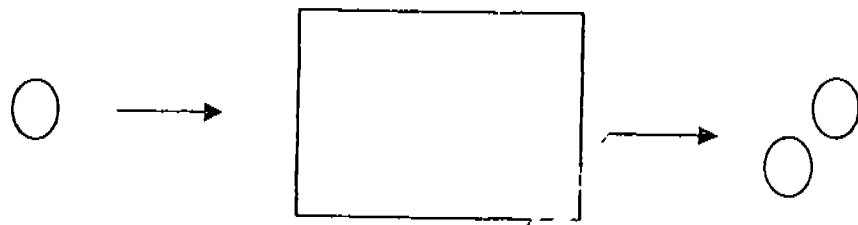
46. Cells can divide to form new cells.

(a) Draw 3 cell divisions of the cell in the box. (2 marks)



(b) Name an organism which reproduce in the same way as above. (1 mark)

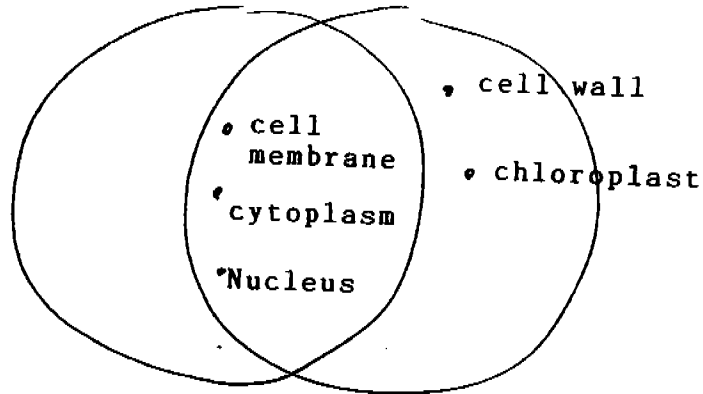
(c) Budding is another way of reproduction. Draw in the missing stage in the box below to complete the process of budding of a yeast cell. (1 mark)



-----END OF PAPER-----

Setters: Ms Chan Lee Shan
Mdm Chia Li Hoon

39)



40) a) It is A

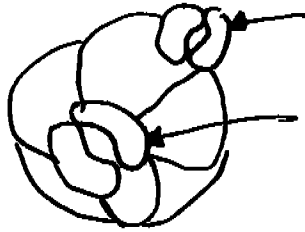
b) It does not have chloroplast because it is storage organ.

41) a) They are made of cellulose

b) It gives the cell a regular shape.

42) i) eye piece ii) focus knobs iii) objective lense
iv) stage

43) a)



b) It belongs to the leaves.

44) a) They have curly hair.

b) Ramli and Samy both have attached ear lobes and know how to roll their tongue.

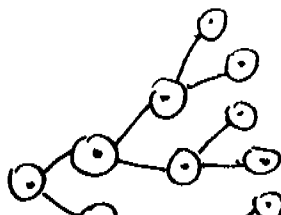
c) It is the colour of their skin.

45) a) Maternal/paternal

b)

c) Peter has 1 brother and 2 sisters.

46) a)



b) Bacteria

c)

