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Henry Park Primary School
P4 Science
2024 Weighted Assessment 2

Duration of Paper : 35 min

Name: _____ ( )

Class: Primary 4 ( ) Parent's Signature: _____

Section A: Multiple-Choice Questions (14 marks)

For each question from 1 to 7, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and write the answers in the boxes given below.

1.		2.		3.		4.		5.	
6.		7.							

1 Which of the following is/are characteristic(s) of mammals?

A They have hair.

B They have six legs.

C They have 3 body parts.

(1) A only

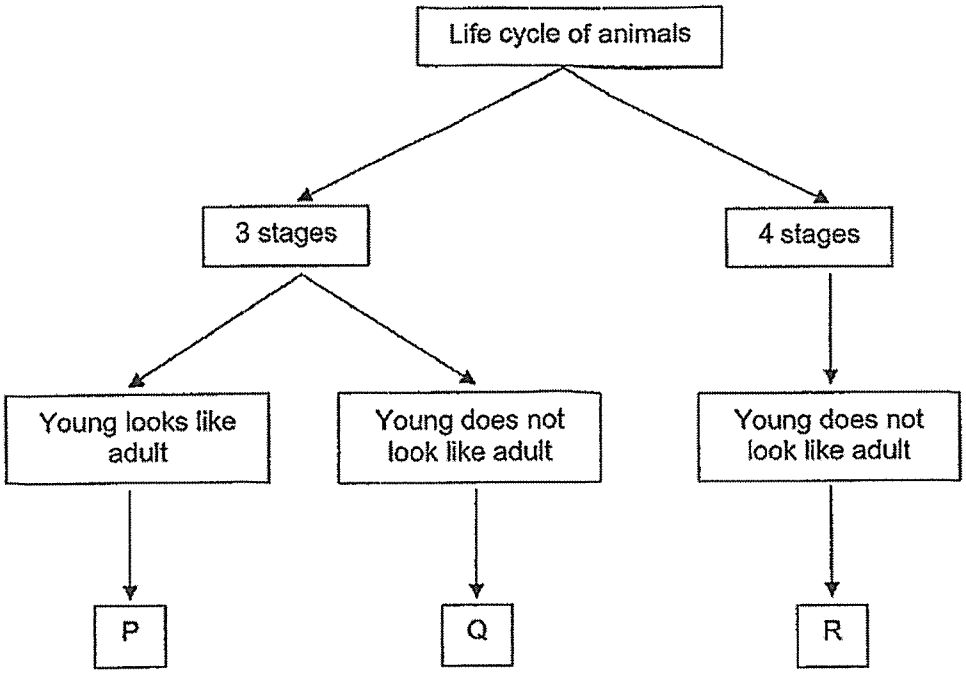
(2) A and B only

(3) B and C only

(4) A, B and C

( )

2 Study the classification chart below.

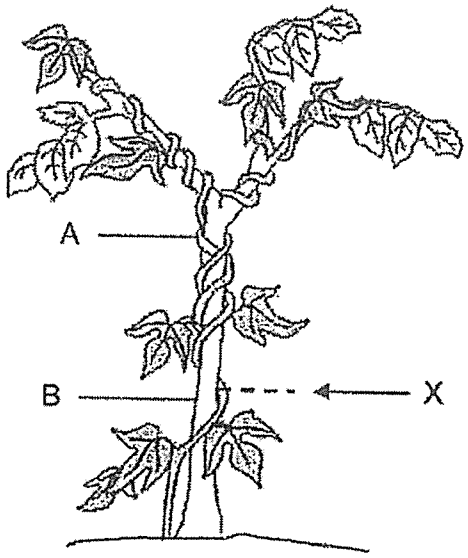


Which one of the following represents animals P, Q and R?

	Animal P	Animal Q	Animal R
	cockroach	mosquito	frog
(2)	cockroach	frog	mosquito
(3)	mosquito	frog	cockroach
(4)	mosquito	cockroach	frog

( )

3 Plant A climbs around plant B to get more sunlight. Plant B provides support for plant A as shown in the diagram below.



The stem of plant A was cut at X. After some time, the part of plant A above X died. Why?

(1) There was a lack of air.

(2) There was a lack of sunlight.

(3) The part above X had no water.

(4) The part above X had no support from plant B.

( )

4 Which of the following are **not** matter?

A air

B light

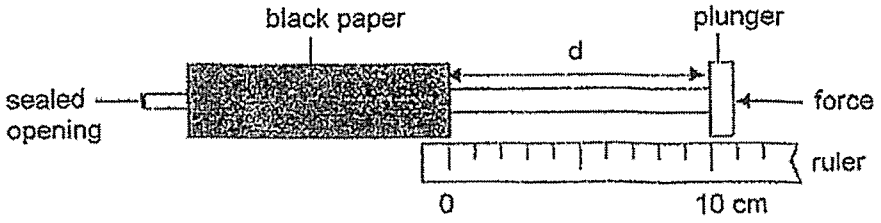
C bottle

D shadow

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

( )

5 Elise used two identical syringes. Each syringe was covered with black paper and completely filled with either air or water.



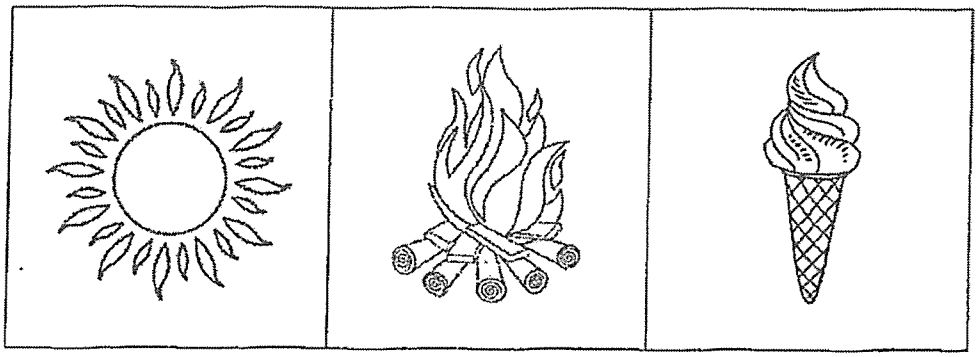
She pushed each plunger as hard as she could. She then measured the distance *d*.

Which one of the following shows the correct values of *d*?

	***d* (cm)**	
	syringe with air	**syringe with water**
(1)	0	10
(2)	5	10
(3)	10	0
(4)	10	5

( )

6 Look at the diagrams below.



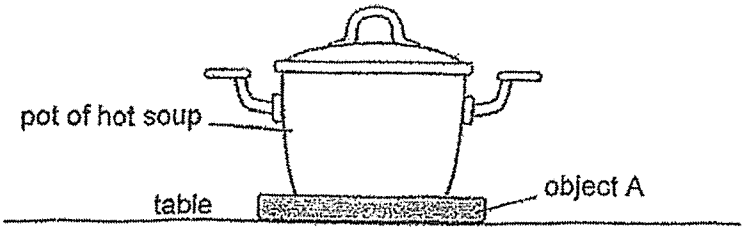
A B C

Which of the following are sources of heat?

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

( )

7 Mrs Lim placed a pot of hot soup on object A on a table as shown below.



Which of the following explains why there were no burn marks on the table?

(1) Object A does not become hot.
(2) Object A absorbs heat from the table.
(3) Object A is a good conductor of heat.
(4) Object A is a poor conductor of heat.

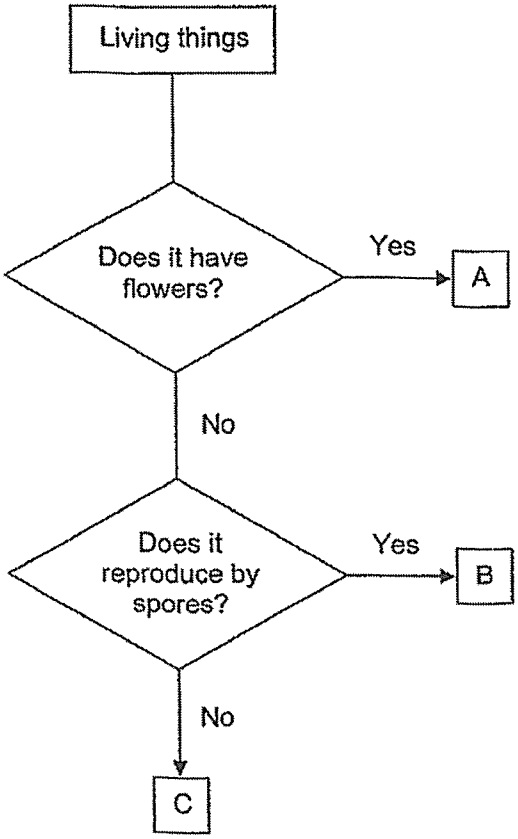
( )

End of Section A

Section B: Open-Ended Questions (11 marks)

For questions 8 to 12, write your answers in the spaces provided.

8 Study the flowchart below.



a) Describe the characteristics of living things in group C. [1]

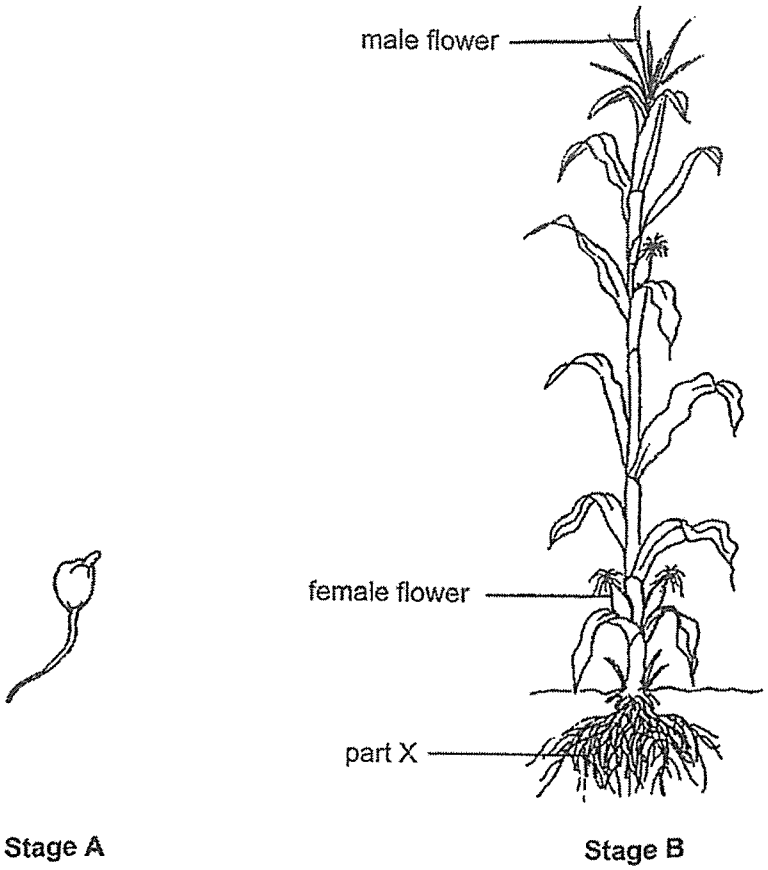
_____

_____

b) In which one of the groups, A, B or C, can you classify "bird's nest fern"? [1]

_____

9 The diagram shows two stages, A and B, in the life cycle of a flowering plant.



a) Identify stages A and B using the words in the box. [1]

adult plant	seed	young plant

Stage A : _____ Stage B : _____

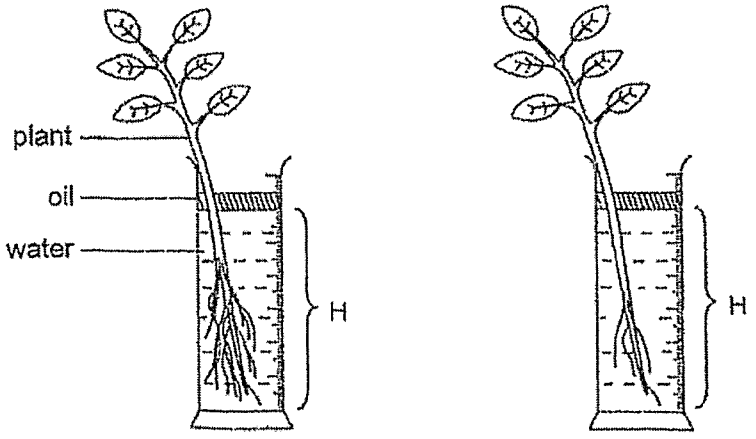
b) What is the function of part X? [1]

_____

_____

10 Sok Fen conducted an experiment to find out how the amount of roots of plants affects the amount of water absorbed.

She set up the experiment as follows. She removed most of the roots from the plant in set-up Y. She then recorded the water level, H, at regular intervals.



Set up X **Set up Y**

a) Which of the following variables should be kept the same in order for Sok Fen to conduct a fair test? [1]

Put a [✓] in the correct boxes.

Variables to be kept the same	Put a [✓]
Type of plant	
Amount of roots of each plant	
Amount of water at the start of the experiment	

b) After some time, Sok Fen observed the water level, H, is lower in one of the set-ups. [1]

Which set-ups, X or Y, is it? Explain your answer.

11 In an experiment, Xavier poured some water into a measuring cylinder as shown in diagram 1.

Then, he gently placed object P into the water as shown in diagram 2.

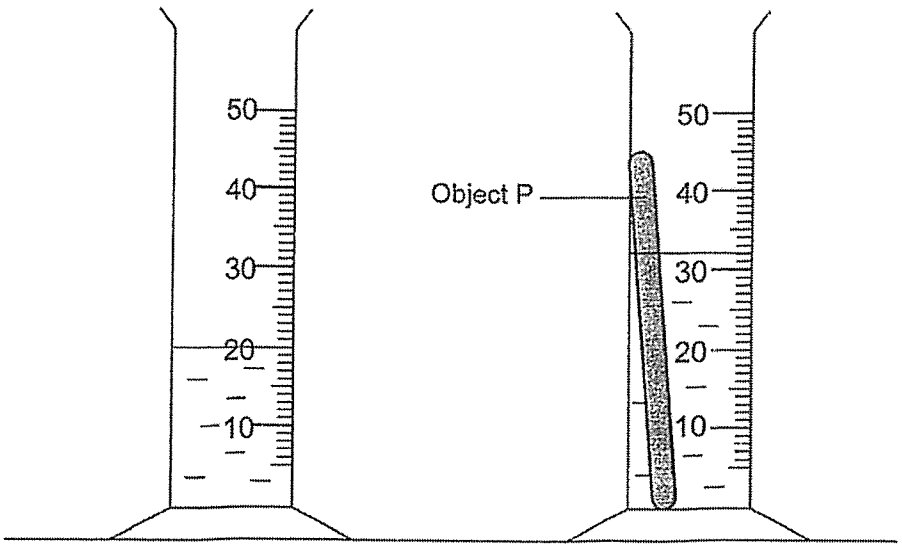


Diagram 1 **Diagram 2**

Xavier observed that the water level rose when object P was placed into the water.

a) What property of object P caused the water level to rise as shown in diagram 2? [1]

_____

b) From your observation of the diagrams above, can Xavier find the volume of object P? Give a reason for your answer. [1]

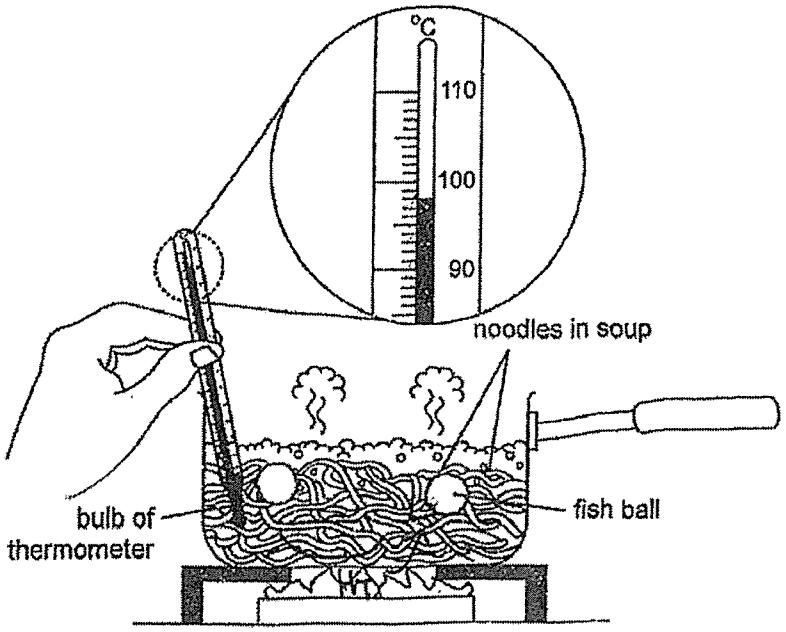
_____

_____

12 a) State what is temperature. [1]

measurement of how I

Joen put some noodles and fish balls at room temperature into a metal pot containing hot soup as shown in the diagram below.



b) He measured the temperature of the soup. [1]

What was the temperature of the soup shown above?

c) Joen found that the temperature of the centre of a fish ball was 80°C. [1]

Give a reason why it was different from the temperature of the soup.

End of Section B

SCHOOL : HENRY PARK SCHOOL
LEVEL : PRIMARY 4
SUBJECT : SCIENCE
TERM : 2024 WA2

Q1)	1
Q2)	2
Q3)	3
Q4)	2
Q5)	2
Q6)	1
Q7)	4
Q8)	a) The living things in group C does not have flowers and done not reproduce by spores. b) Group B.
Q9)	a)Stage A : seed Stage B : adult plant b)Part X absorb water and mineral salts for the plant and anchors the plant firmly to the ground.
Q10)	a) Type of plant Amount of water at the start of the experiment b) Set-up X. As the plant in set-up X had more roots than the plant in set-up Y, hence, more water is absorbed by the plant in set-up X having a lower water level.
Q11)	a) Object P occupies space. b) No. As object P was not fully submerged in the water, so Xavier cannot find the volume of object P.
Q12)	a) It is the measurement of how hot or cold something is. b) 98°C c) As the centre of the fish ball was at lower temperature than the soup taking a linger time for the fish ball to cook, hence having a different temperature than the soup.