Henry Park Primary School
Primary 5 Science
2024 Weighted Assessment 1

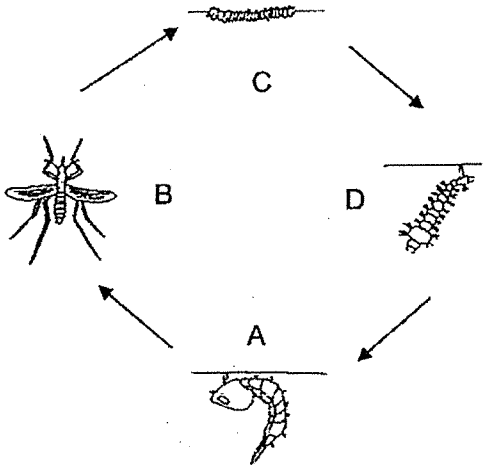
25

Name: _____ ( ) Duration: 35 minutes

Class: Primary 5 _____ Parent's Signature: _____

Section A (7 x 2 marks = 14 marks)
For each question, four options are given. One of them is a correct answer.
Make your choice (1, 2, 3 or 4) and write your answers in the brackets provided at the end of each question.

1. The diagram below shows the life cycle of a mosquito.

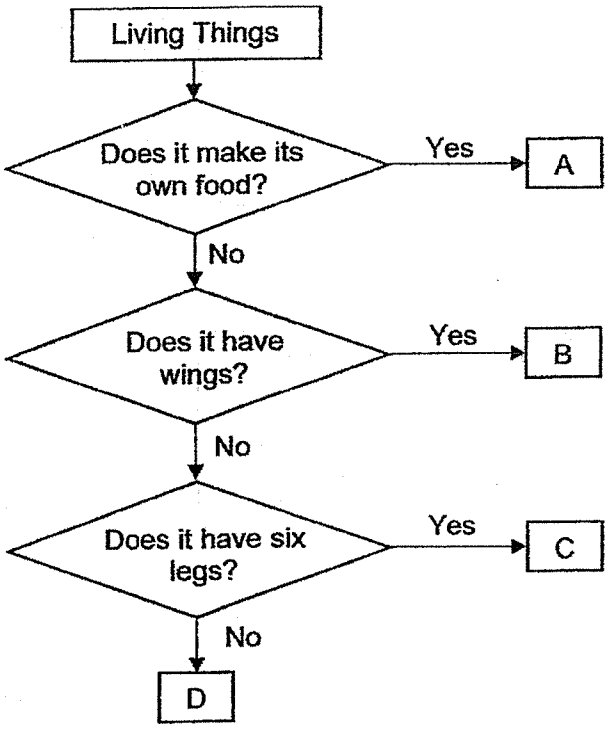


James sprayed oil on the possible breeding grounds of mosquitoes in order to reduce the number of mosquitoes.

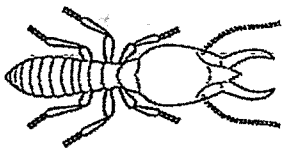
At which stages would the mosquitoes be most affected by this method?

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

2. Study the flowchart below carefully.



The diagram below shows living thing X which is found in a garden.

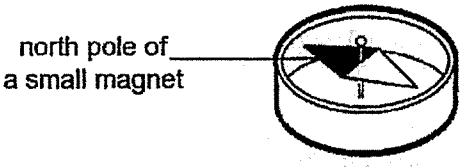


Living thing X

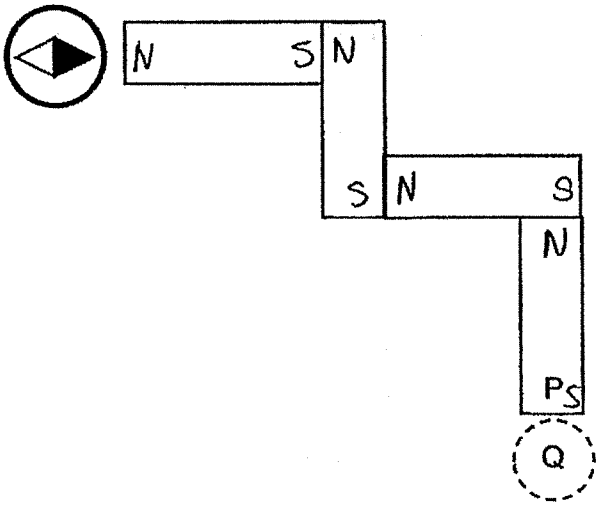
Where could living thing X be placed in the flowchart above?

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

3. A compass has a small magnet that rotates freely as shown below.



Four bar magnets were arranged such that they were attracted to one another. A compass was then placed near end P and the direction of the compass needle is as shown below.



What would be the direction of the needle when the compass was placed at Q?

(1) 

(2) 

(3) 

(4) 

( )

4. Study the table below that indicates the state of substances A, B and C at certain temperatures.

Substance	State of substances at		
	25°C	50°C	100°C
A	liquid	liquid	gas
B	solid	liquid	gas
C	solid	solid	liquid

Based on the information above, which of the following statements is correct?

(1) Substance A has the highest boiling point

(2) Substance C has the highest melting point.

(3) Substance A has the same boiling point as substance B.

(4) Substance B has a higher freezing point than substance C. ( )

5. Linda poured the same amount of water on three identical towels, W, X and Y. She then hung the towels at three different locations in the garden.

She noted down the conditions each towel was in.

Towels	Presence of wind	Temperature of surrounding	Folded
W	✓	39°C	✓
X	x	20°C	x
Y	✓	15°C	x

Based on the condition(s), which part of the garden was towel W hung?

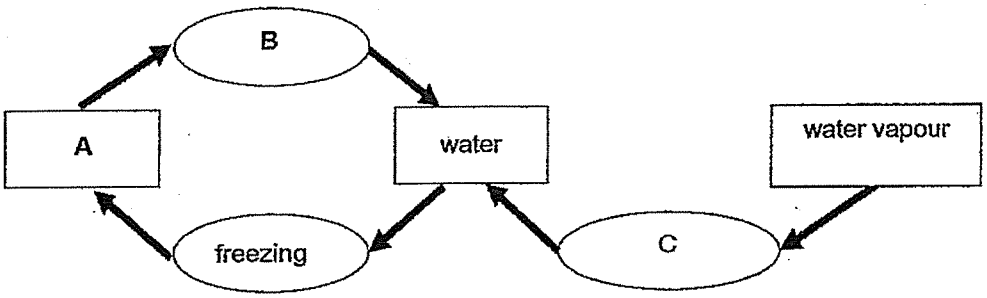
(1) shady

(2) sunny

(3) shady and windy

(4) sunny and windy ( )

6. The diagram below represents the different states of water and some processes. "A" refers to the state of water while "B" and "C" refer to the processes.

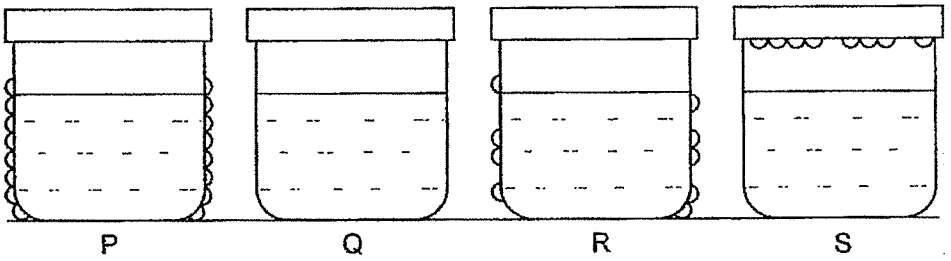


Based on the diagram, which of the following correctly represents A, B and C?

	A	B	C
(1)	Ice	Melting	Condensation
(2)	Ice	Boiling	Evaporation
(3)	Steam	Melting	Condensation
(4)	Steam	Boiling	Evaporation

( )

7. Four identical covered beakers P, Q, R and S contained the same amount of water set at different temperatures.



After five minutes, water droplets were observed for some of the beakers as shown above.

Which one of the following represents the correct order of temperatures of water in the beakers, from lowest to the highest?

(1) Q, R, S, P

(2) Q, S, R, P

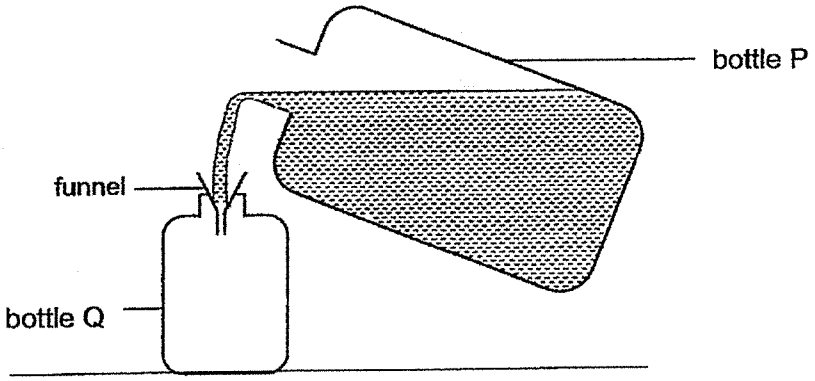
(3) P, R, S, Q

(4) P, R, Q, S ( )

Section B (11 marks)

Read each of the following questions carefully and write the answers in the spaces provided.

8. Jenny wanted to transfer some shampoo from a bottle P into a bottle Q using a funnel as shown below.



At first, she noticed that some shampoo entered bottle Q easily.

However, after a while, she noticed that the shampoo did not flow into the smaller bottle even though the bottle Q was not full.

a) Why did the shampoo stop flowing into bottle Q? [1]

b) Without removing any of the apparatus, what could Jenny do to continue filling up the bottle Q? Give a reason for your answer. [1]

9. A hot pizza was placed into a box as shown in diagram 1.

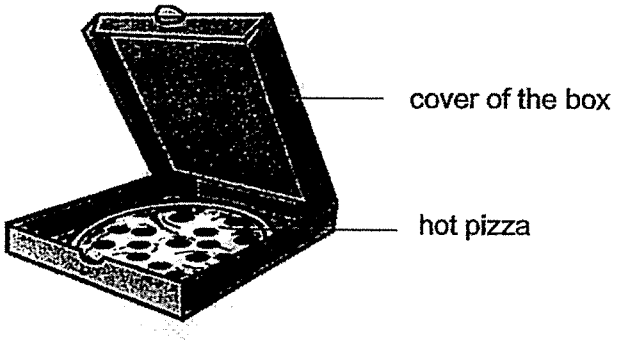


Diagram 1

After a few minutes, some water droplets were formed on the inner side of the cover.

a) Explain how the water droplets formed on the inner side of the cover of the box. [2]

Another hot pizza was placed in a similar box but there were some holes on the cover of the box as shown in Diagram 2 below.

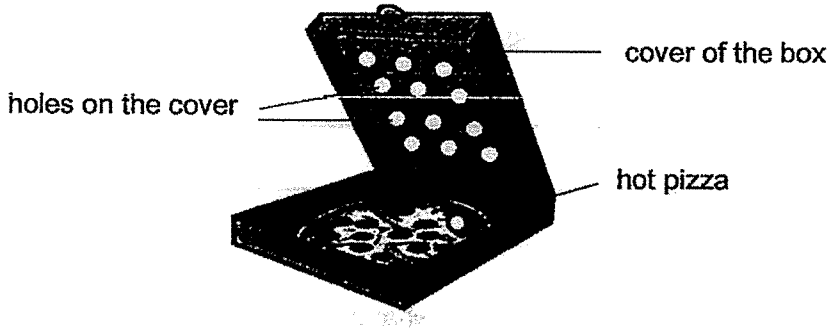
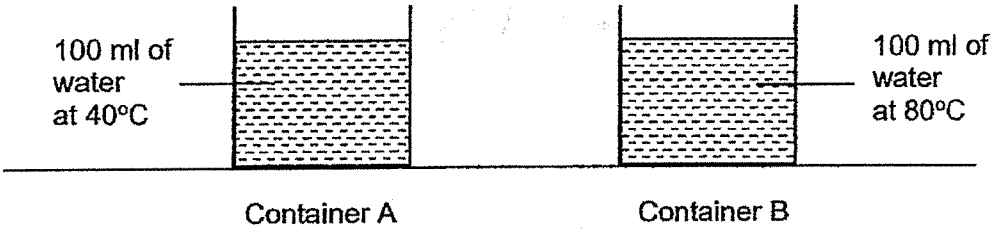


Diagram 2

b) Give a reason how the holes help to reduce the amount of water droplets formed under the cover of the box. [1]

10 a) What is evaporation? [1]

Two containers of 100 ml of water as shown below were left in the open for three hours.

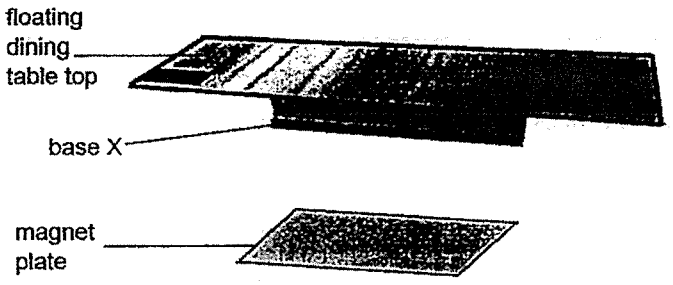


b) Fill in a possible volume of water left in container A after three hours in the table below.

Container	Amount of water left (ml)
A	
B	80

Explain your answer in the table shown above. [1]

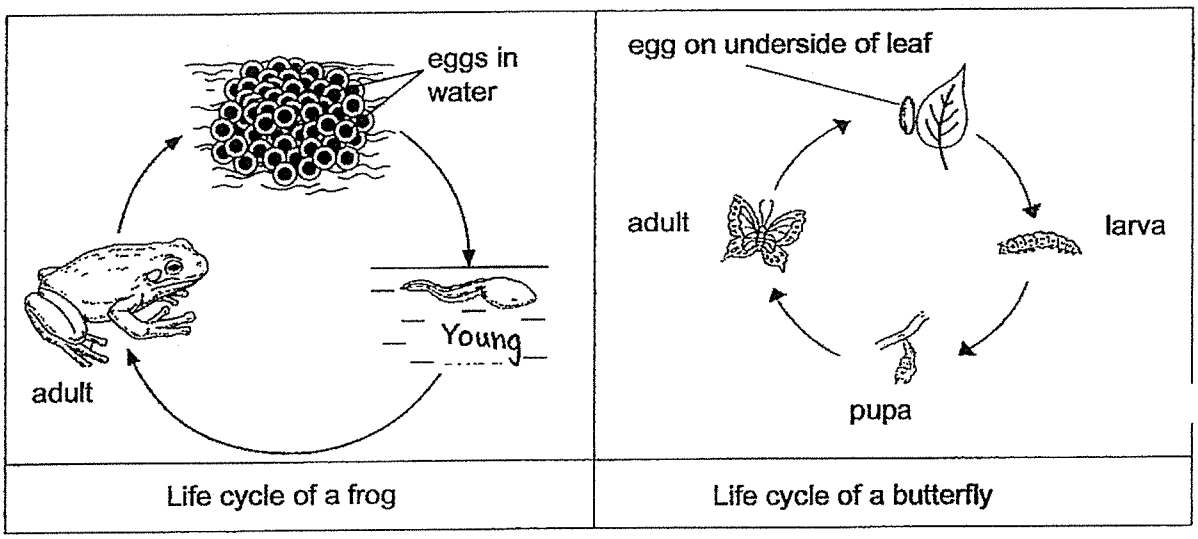
11. The diagram below shows a floating dining table.



The floating dining table consists of a magnet plate on the floor and a special base X. Base X must be present in order for the tabletop to float.

Explain how the tabletop is able to float. [2]

12. The diagrams below show the life cycles of a frog and a butterfly.



Life cycle of a frog | Life cycle of a butterfly

State two differences between the stages in the two life cycles shown above. [2]

Difference 1:

Difference 2:

End of P5 Science WA1

SCHOOL: HENRY PARK PRIMARY SCHOOL

SUBJECT: SCIENCE

LEVEL: PRIMARY 5

PAPER: 2024 Weighted Assessment 1

SECTION A

Q1	Q2	Q3	Q4	Q5	Q6	Q7
4	3	3	2	4	1	4

SECTION B

Q8. (a) Air takes up space inside the small bottle and could not be compressed any further.

(b) Lift the funnel up a little. Air in bottle Q can escape through the gap and shampoo can occupy the space left behind.

Q9. (a) The water vapour in the air inside the box gained from the pizza, which then lost heat to the cooler inner side of the cover and condensed to form water droplets.

(b) The hot water vapour escaped through the holes. so less water vapour condensed.

Q10. (a) Evaporation is the process where water gains heat from the surrounding air and changes from liquid to gaseous state.

(b) 90ml. The temperature of the water in container A is lower than that in container B, thus it evaporated at a slower rate than the water in container B.

Q11. Base X is likely to be a magnet. The like poles of the magnet plate and base X are facing each other and repel each other, causing the tabletop to float.

Q12. Difference 1: The life cycle of the frog has 3 stages while the life cycle of the butterfly has 4 stages.

Difference 2: The frog spends some of its time in water and on land while the butterfly spends all of its time on land.

END