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Henry Park Primary School
Primary 5 Science
2024 Weighted Assessment 1

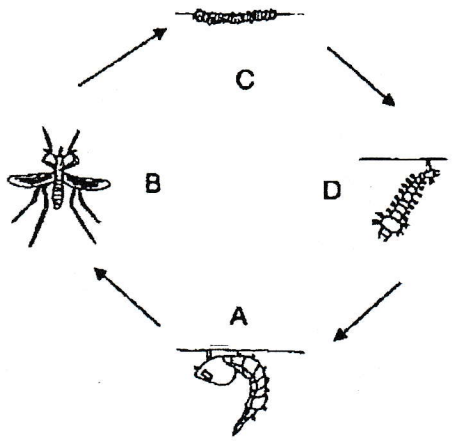
25

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?

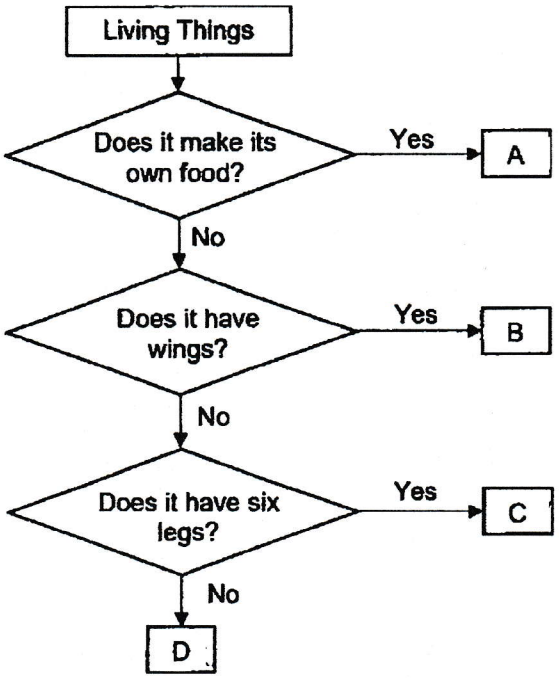
(1) A and B only

(2) A and D only

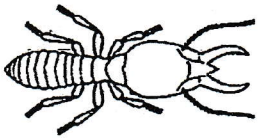
(3) B and C only

(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?

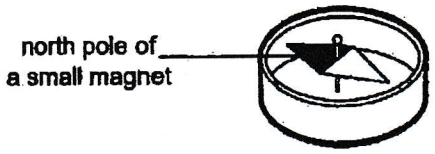
(1) A

(2) B

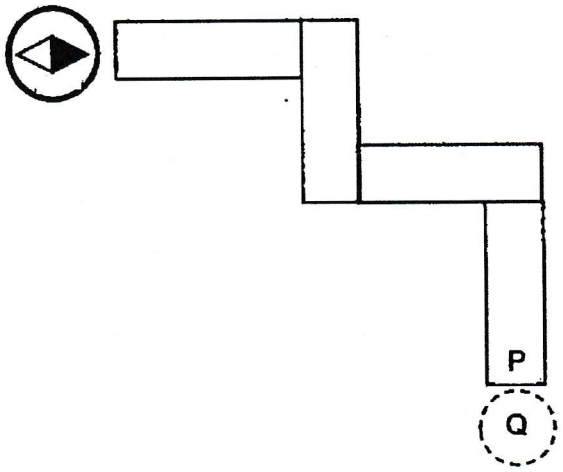
(3) C

(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. ( )

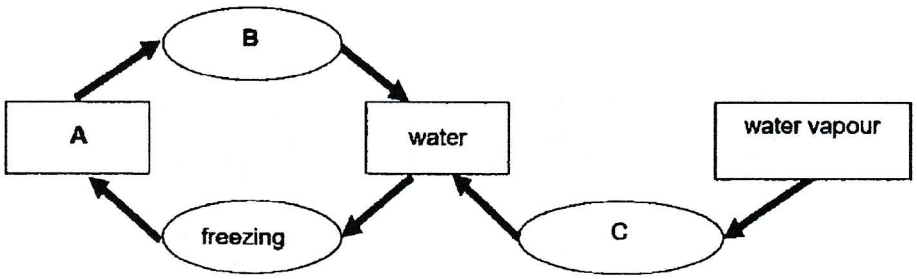
5. Linda poured the same amount of water on three identical towels, W, X and Y. She then hung the towels at three different locations in the garden.
She noted down the conditions each towel was in.

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.

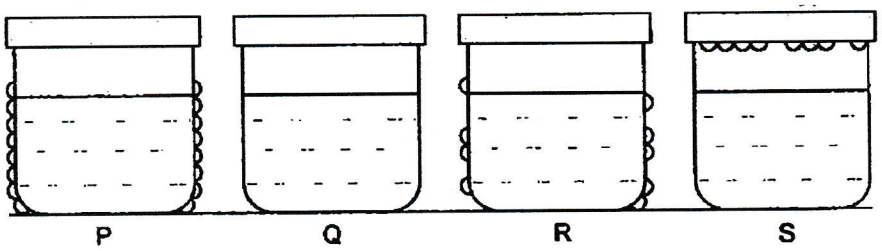


Based on the diagram, which of the following correctly represents A, B and C?

	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

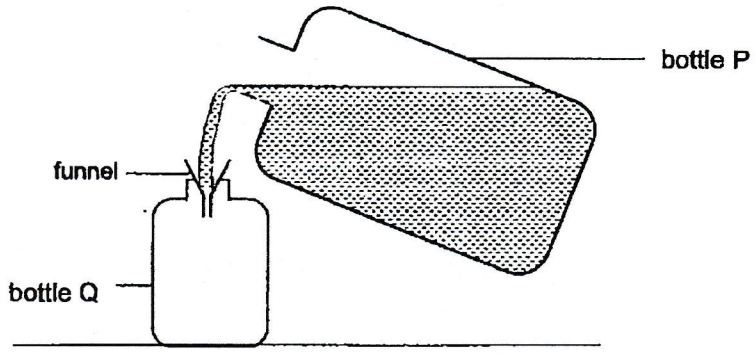
(3) P, R, S, Q

(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.

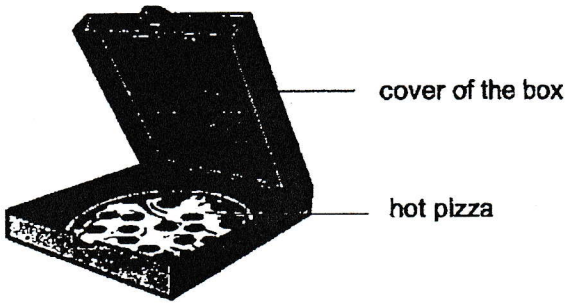


Diagram 1

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.

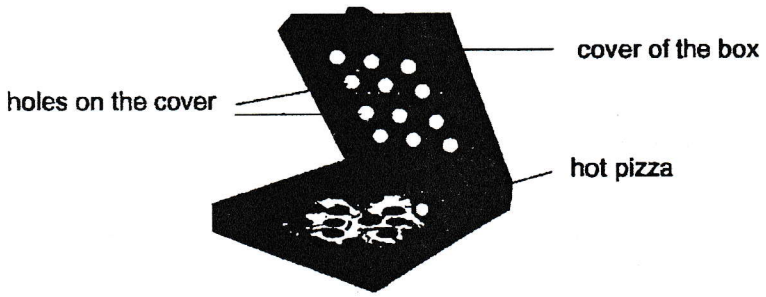


Diagram 2

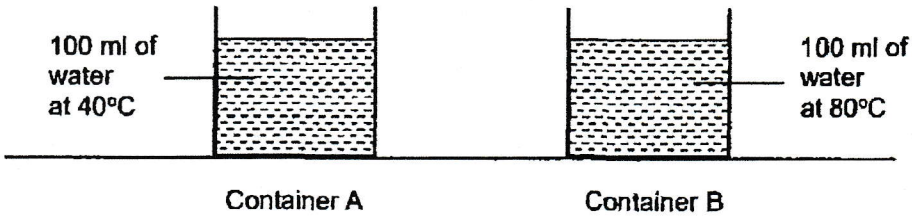
b) Give a reason how the holes help to reduce the amount of water droplets formed under the cover of the box. [1]

_____

_____

10 a) What is evaporation? [1]

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

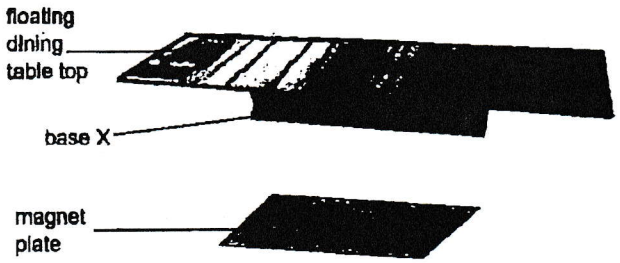


b) Fill in a possible volume of water left in container A after three hours in the table below.

Container	Amount of water left (ml)
A	
B	80

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

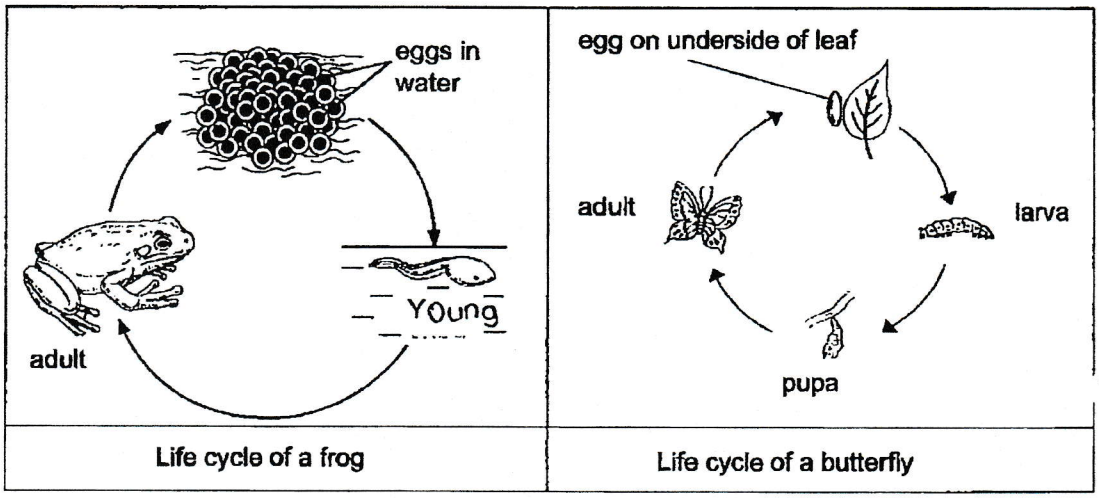
11. The diagram below shows a floating dining table.



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:

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Answer Key – Correction Worksheet

Section A

Question	Answer	Corrections
1	4	
2	3	
3	3	
4	2	
5	4	
6	1	
7	4	

QN	Answer	Corrections
8a	Air is taking up space inside the small bottle [½] and could not be compressed any further / anymore. [½]	
8b	Lift the funnel slightly [½] so that air can escape from the bottle. [½]	
9a	The water vapour in the air inside the box gained heat from the pizza [½] touched the cooler inner surface on the underside of the cover of the box [½] loses heat [½] and condensed. [½]	
9b	The (hot) water vapour escaped through the holes [½] so less water vapour condensed [½].	
10a	Evaporation is the process whereby matter / water changes state from liquid / water to gas / water vapour.[1] **Note:** No partial mark.	
10b	Any value from 81 to 99. Do not accept a range. The temperature of water is lower in Container A so rate of evaporation of water is slower. [1] **Note:** [1] is only for correct explanation.	
11	Like poles of the magnet placed at base X and the magnet plate are facing each other [½], causing the magnets to repel [½]. **Note:** Accept if students state *base X is a magnet.*	
12	Difference 1: Frog has a 3-stage life cycle while butterfly has a 4-stage life-cycle. Difference 2: Frogs lay their eggs in water while butterflies lay their eggs on land.	