

Catholic High School (Primary)  
Primary 4 Science 2025  
Weighted Assessment 2

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

Class: Pri. 4 - \_\_\_\_\_

Date: 8 May 2025

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

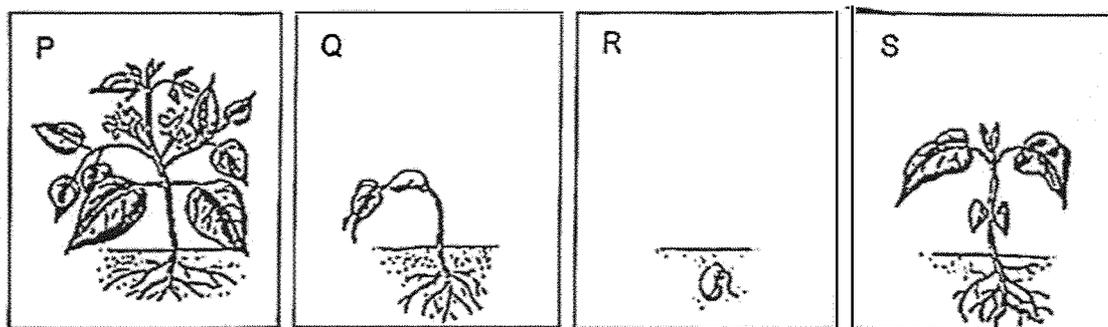
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| MARKS | 20 |
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**Booklet A (6 × 2 marks)**

For each question from 1 to 6, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Write its correct number in the brackets provided.

(12 marks)

1 The diagrams show the stages of the life cycle of a plant.



Which of the following shows the stages in the correct order?

- (1) P, S, Q, R
- (2) P, R, Q, S
- (3) R, Q, P, S
- (4) R, P, S, Q

( )

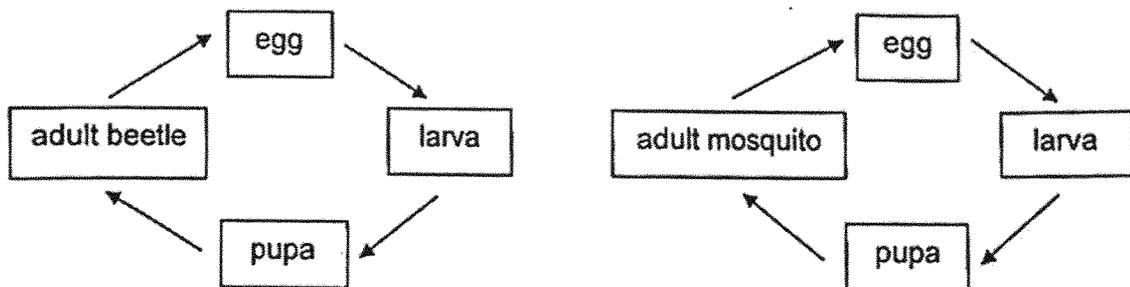
- 2 The table shows the number of days animals R and S spend at each stage of its life cycle before developing into an adult.

| Stage of life cycle | Number of days spent at each stage of its life cycle |          |
|---------------------|------------------------------------------------------|----------|
|                     | animal R                                             | animal S |
| egg                 | 4                                                    | 6        |
| larva               | 7                                                    | 4        |
| pupa                | 6                                                    | 8        |

Based on the information, which statement about animals R and S is correct?

- (1) Animal S has a shorter life span than animal R.
- (2) Animal S spends less days as a pupa than animal R.
- (3) Animal R spends more days as a larva than animal S.
- (4) Animals R and S have three stages in their life cycles. ( )

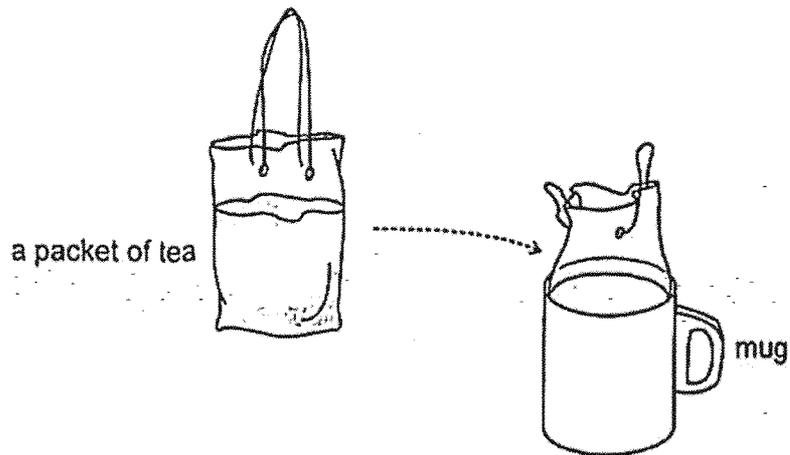
- 3 The diagram shows the life cycles of two animals, the beetle and the mosquito.



Which statements about the life cycles of the animals are correct?

- A Both give birth to young alive.
  - B Both their young do not resemble the adult.
  - C The young will only become insects at the adult stage.
  - D The pupa does not eat before reaching the adult stage.
- (1) A and C only
  - (2) B and D only
  - (3) A, C and D only
  - (4) B, C and D only ( )

- 4 Manny placed a packet of tea into a mug without overflowing as shown.



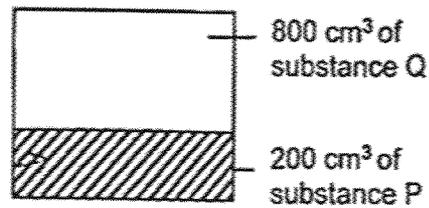
Which of the following about the tea is correct?

- (1) Both the shape and the volume of the tea changed.
- (2) The shape of the tea changed but the volume did not.
- (3) The volume of the tea changed but the shape did not.
- (4) Both the shape and the volume of the tea did not change. ( )

- 5 Study the table.  
A tick (✓) indicates that the substance has the property.

| Properties            | Substance P | Substance Q |
|-----------------------|-------------|-------------|
| can be compressed     |             |             |
| has no definite shape |             |             |

A container of  $1000 \text{ cm}^3$  contains  $800 \text{ cm}^3$  of substance Q and  $200 \text{ cm}^3$  of substance P.

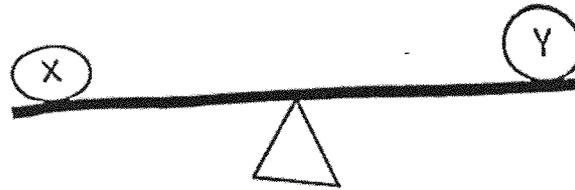


If another  $100 \text{ cm}^3$  of substance Q is added to the container, what is the volume of substance Q now?

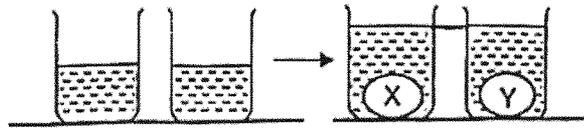
- (1)  $800 \text{ cm}^3$
- (2)  $900 \text{ cm}^3$
- (3)  $1000 \text{ cm}^3$
- (4)  $1100 \text{ cm}^3$

( )

- 6 The diagram shows objects X and Y when placed on a balance.



Aisha then placed both objects into two similar beakers containing 150 ml of water each as shown.



Based on the observations, what could Aisha conclude about objects X and Y?

- (1) Objects X and Y are not matter.
- (2) Objects X and Y have similar mass.
- (3) Objects X and Y have similar volumes.
- (4) Object X have a smaller mass than object Y.

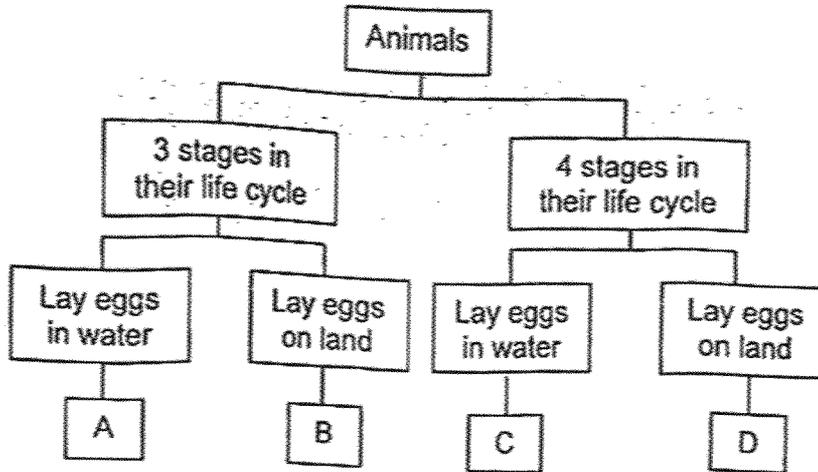
( )

**Booklet B (8 marks)**

For questions 7 to 9, write your answers in this booklet.

The number of marks available is shown in brackets [ ] at the end of each question or part question.

7 Study the diagram.



(a) Based on the diagram, state one similarity between animals A and C. [1]

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(b) Based on the diagram, state one difference between animals B and D. [1]

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(c) Which letters, A, B, C or D, represent the following animals? [1]

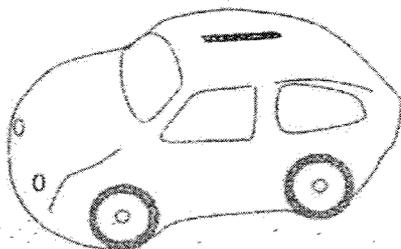
(i) frog: \_\_\_\_\_

(ii) butterfly: \_\_\_\_\_

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|       |   |
|-------|---|
| SCORE | 3 |
|-------|---|

- 8 Amy has a coin bank as shown. She wants to find out how much space is inside the coin bank.



- (a) Amy is not able to look inside the coin bank or place an apparatus such as a ruler to measure the inside of it.

Describe what she can do to find the volume inside the coin bank. [2]

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- (b) The volume inside the coin bank is  $200 \text{ cm}^3$ . Amy has 200 similar coins. Each coin has a volume of  $1 \text{ cm}^3$ .

Explain why Amy cannot put all 200 coins into the coin bank. [1]

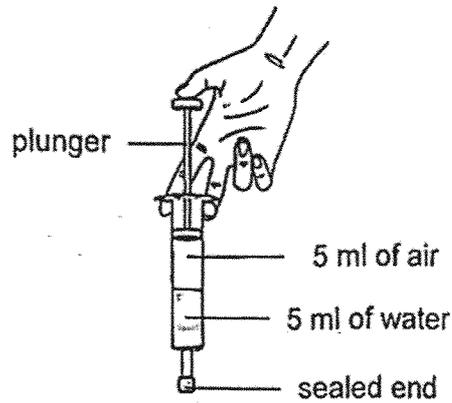
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| SCORE | 3 |
|-------|---|

- 9 A syringe was filled with 5 ml of air and 5 ml of water as shown. The plunger was then pushed in until it could no longer move.



- (a) Based on the information, what happened to the volume of air and water in the syringe? Put a tick (✓) in the table. [1]

|      |                 | Increased | Decreased | Remained the same |
|------|-----------------|-----------|-----------|-------------------|
| (i)  | Volume of air   |           |           |                   |
| (ii) | Volume of water |           |           |                   |

- (b) Explain your answer in (a) (ii). [1]

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End of Paper

|       |   |
|-------|---|
| SCORE | 2 |
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SCHOOL : CATHOLIC HIGH SCHOOL  
LEVEL : PRIMARY 4  
SUBJECT : SCIENCE  
TERM : WA2 2025

|     |                                                                                                                                                                                                                                   |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Q1) | 2                                                                                                                                                                                                                                 |
| Q2) | 3                                                                                                                                                                                                                                 |
| Q3) | 2                                                                                                                                                                                                                                 |
| Q4) | 2                                                                                                                                                                                                                                 |
| Q5) | 1                                                                                                                                                                                                                                 |
| Q6) | 3                                                                                                                                                                                                                                 |
| Q7) | a) Animals A and C lay eggs in water.<br>b) Animals B have a 3 stage life cycle but animal D have a 4 stage life cycle.<br>c) i)A ii)D                                                                                            |
| Q8) | a) Amy should fill the inside of the coin fully with water. Amy will pour the water inside the coin bank to a measuring cylinder.<br>b) The coins are solid and have a definite shape. The coins are unable to fill the air gaps. |
| Q9) | a) i) Decreased<br>ii) Remained the same<br>b) Air can be compressed but water can't be compressed, so the volume of air and the volume of water will remain the same.                                                            |