

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

Name: _____ ()

Class: Pri. 4 - _____

Date: 8 May 2025

Parent's Signature: _____

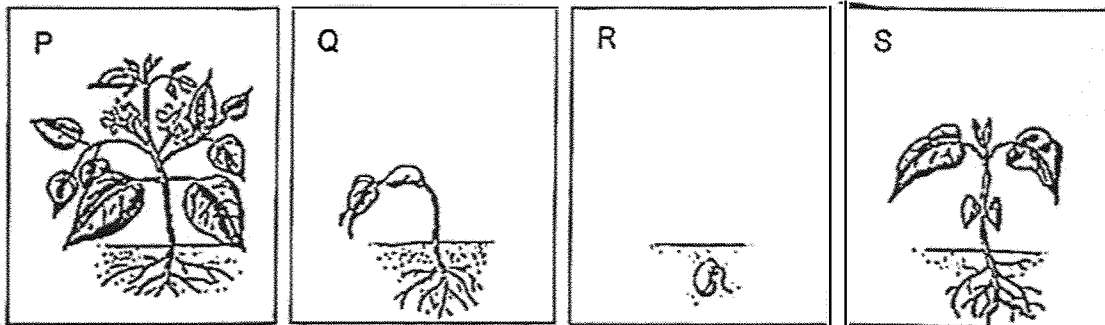
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|-------|----|
| MARKS | 20 |
|-------|----|

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

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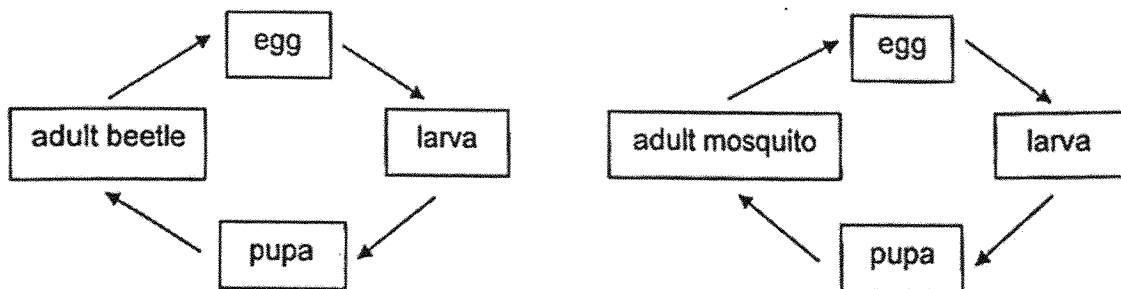
- 2 The table shows the number of days animals R and S spend at each stage of its life cycle before developing into an adult.

| 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. ()

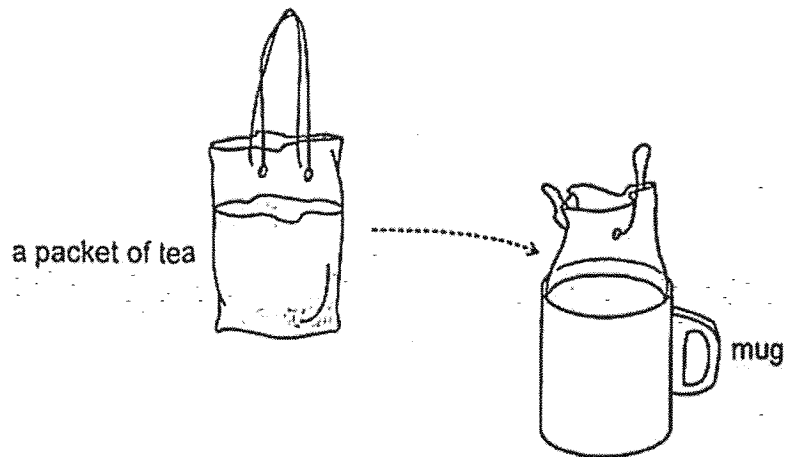
- 3 The diagram shows the life cycles of two animals, the beetle and the mosquito.



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.



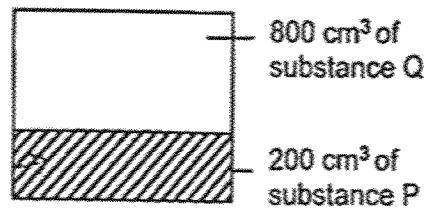
Which of the following about the tea is correct?

- (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 cm^3 contains 800 cm^3 of substance Q and 200 cm^3 of substance P.

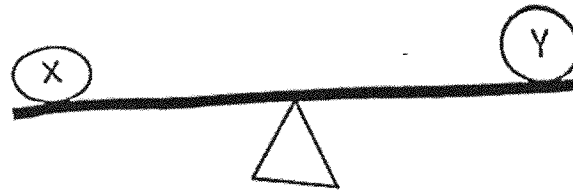


If another 100 cm^3 of substance Q is added to the container, what is the volume of substance Q now?

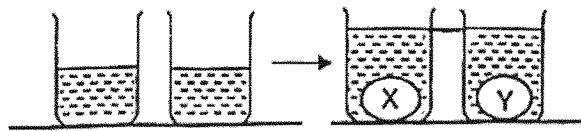
- (1) 800 cm^3
- (2) 900 cm^3
- (3) 1000 cm^3
- (4) 1100 cm^3

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- 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.

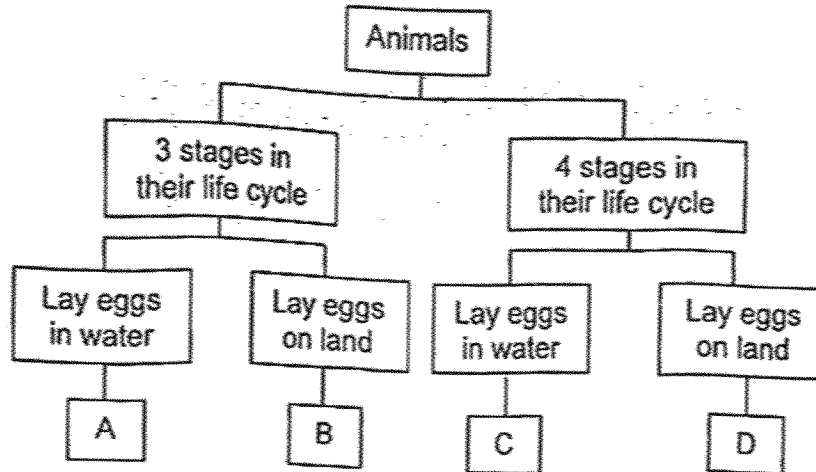
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Booklet B (8 marks)

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]

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

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

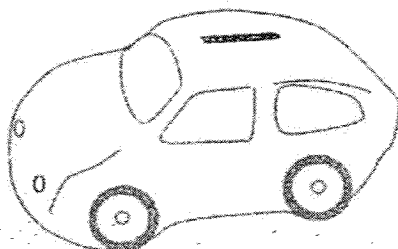
(i) frog: _____

(ii) butterfly: _____

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| | |
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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]

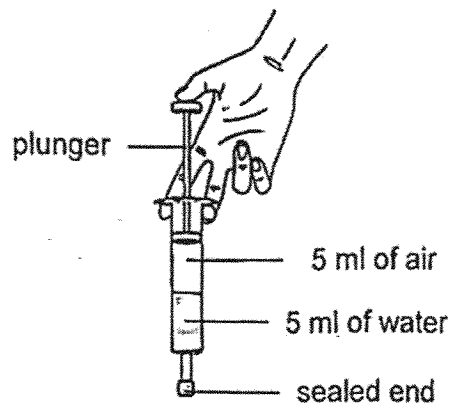
- (b) The volume inside the coin bank is 200 cm^3 . Amy has 200 similar coins. Each coin has a volume of 1 cm^3 .

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]

End of Paper

| | |
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| SCORE | 2 |
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SCHOOL : CATHOLIC HIGH SCHOOL
LEVEL : PRIMARY 4
SUBJECT : SCIENCE
TERM : 2025 WEIGHTED ASSESSMENT 2

| | |
|----|---|
| Q1 | 2 |
| Q2 | 3 |
| Q3 | 2 |
| Q4 | 2 |
| Q5 | 1 |
| Q6 | 3 |
| Q7 | a) Animals A and C lay eggs in water. b) Animals B have a 3 stage life cycle but animal D have a 4 stage life cycle. 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. b) The coins are solid and have a definite shape. The coins are unable to fill the air gaps. |
| Q9 | a) i) Decreased ii) Remained the same 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. |

