

Catholic High School (Primary)
Primary 4 Science 2023
Weighted Assessment 2

Name: _____ ()

Class: Pri. 4 - _____

Date: 8 May 2023

Parent's Signature: _____

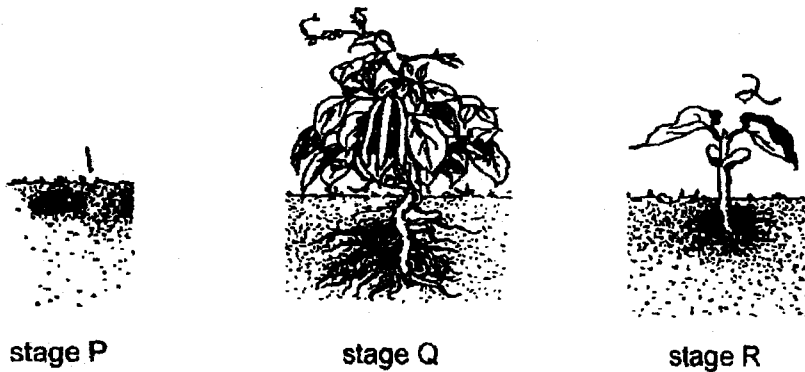
| | |
|-------|----|
| MARKS | 20 |
|-------|----|

Section 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 diagram shows the stages of a bean plant.



Which of the following correctly shows the life cycle of the bean plant?

- (1)

```

      P
     / \
    /   \
   R     Q
    \     /
     \___/
            
```

(2)

```

      R
     / \
    /   \
   Q     P
    \     /
     \___/
            
```

(3)

```

      Q
     / \
    /   \
   P     R
    \     /
     \___/
            
```

(4)

```

      R
     / \
    /   \
   P     Q
    \     /
     \___/
            
```
- ()

- 2 Chandra kept four animals, A, B, C and D, in four different containers. These animals are at different stages of growth.

The table shows the amount of food given in the beginning and the amount of food left after a week.

| Animal | Amount of food in the beginning (g) | Amount of food left after a week (g) |
|--------|-------------------------------------|--------------------------------------|
| A | 20 | 18 |
| B | 20 | 20 |
| C | 20 | 9 |
| D | 20 | 5 |

Which animal is likely to be in the pupal stage?

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

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- 3 Which statements about matter are correct?

- A All matter can be seen and felt.
- B Things around us are made of matter.
- C All matter has definite shape and definite volume.
- D Matter is anything that has mass and occupies space.

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

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- 4 Alex, Brianne and Chen Xin filled a bucket with sand. They continued to pour more sand into the bucket and observed that the sand flowed out of the bucket. They made the following statements about sand.



Sand occupies space.

Alex



Sand is a liquid and takes the shape of the bucket.

Brianne



Sand has a definite volume.

Chen Xin



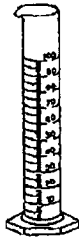
Who made the correct statement(s)?

- (1) Alex only
- (2) Brianne only
- (3) Alex and Chen Xin only
- (4) Brianne and Chen Xin only

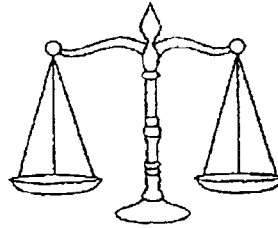
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5 Which instrument can be used to measure volume?

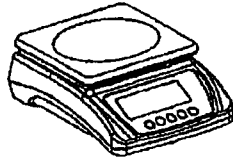
(1)



(2)



(3)

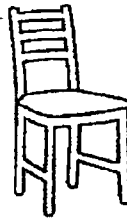


(4)



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6 We can see the chair because it _____.



- (1) gives off light
- (2) reflects light into our eyes
- (3) blocks light going into our eyes
- (4) allows light to pass through our eyes

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Section 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.

(8 marks)

- 7 The pictures show the different stages of the life cycle of a butterfly.



stage W



stage X



stage Y



stage Z

- (a) Name the stages.

[1]

stage W : _____

stage Y : _____

- (b) At which stage, W, X, Y or Z, is the butterfly harmful to plants? Give a reason.

[1]

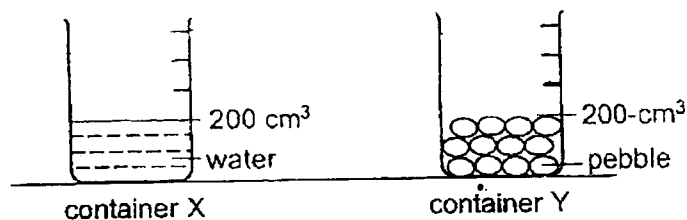
- (c) How does laying many eggs help the butterfly in their survival?

[1]

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

- 8 Celine had two containers with a capacity of 500 cm^3 . She filled container X with 200 cm^3 of water and container Y with pebbles to the 200-cm^3 marking.



- (a) She poured all the water from container X into container Y.

What would be the total volume of the pebbles and water in container Y?

Put a tick (✓) in the box to show the correct volume.

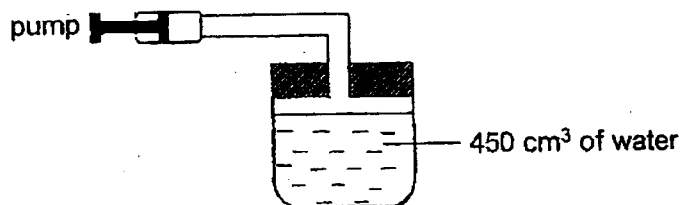
[1]

| Total volume of pebbles and water | Put a tick (✓) |
|---|----------------|
| more than 400 cm^3 | |
| 400 cm^3 | |
| less than 400 cm^3 but more than 200 cm^3 | |

- (b) Explain your answer in (a).

[1]

Celine then poured 450 cm^3 of water into the container and attached an air pump to it. She pumped in 100 cm^3 of air into the container which had a capacity of 500 cm^3 .

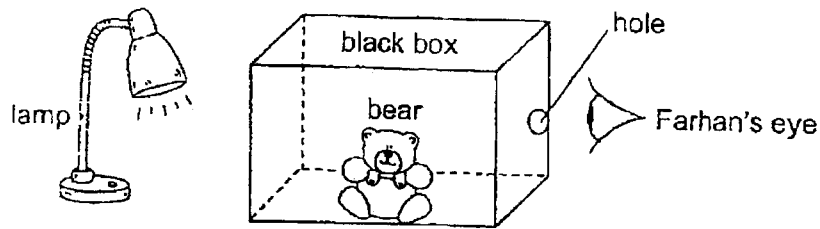


- (c) What is the total volume of air in the container? Explain your answer. [1]

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

- 9 Farhan placed a toy bear into a black box with a hole. He switched on the lamp and placed it beside the black box as shown.



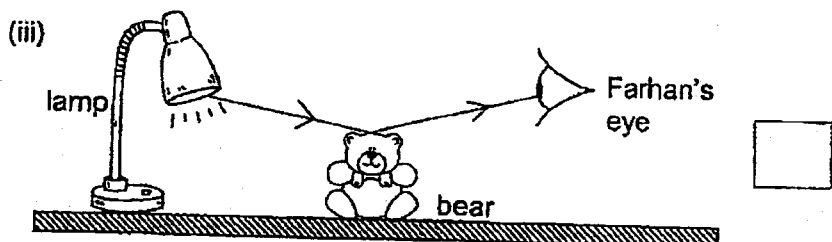
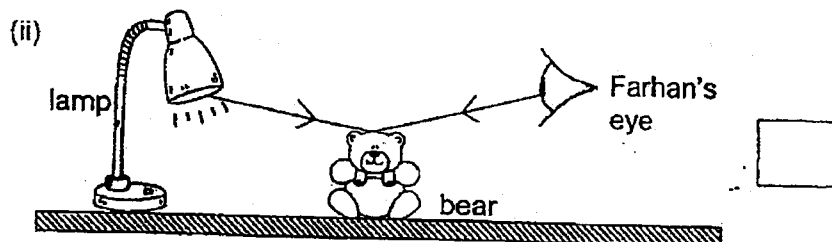
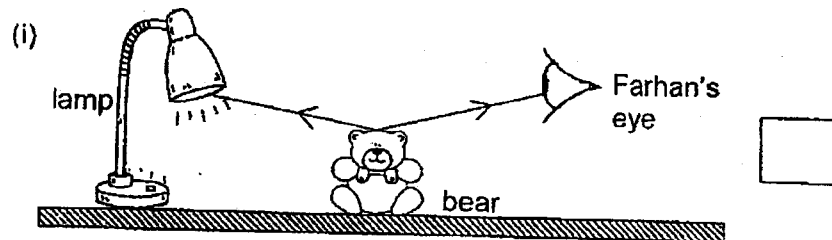
- (a) Would Farhan be able to see the bear when he peeped through the hole? Explain your answer.

[1]

Farhan took out the bear from the black box and placed it on a table.

- (b) Which diagram shows the path of light that makes it possible for Farhan to see the bear?
Put a tick (✓) in the box to show the correct path of light.

[1]



End of Paper

SCHOOL : CATHOLIC HIGH PRIMARY SCHOOL
 LEVEL : PRIMARY 4
 SUBJECT : SCIENCE
 TERM : 2023 WA2

CONTACT :

SECTION A

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 |
|----|----|----|----|----|----|
| 4 | 2 | 3 | 3 | 1 | 2 |

SECTION B

| | |
|-----|--|
| Q7) | <p>a) Stage W: Larva Stage Y: Egg</p> <p>b) W. The larva eats the leaves of a plant</p> <p>c) Increase the chances of the butterfly reaching maturity/adulthood as some eggs may be eaten</p> |
| Q8) | <p>a) Any value within 200cm^3 - 400cm^3</p> <p>b) In container Y, there are air spaces between pebbles which water can fill up.</p> <p>c) 50cm^3. Water cannot be compressed, while air can be compressed to fit the volume of the container.</p> |
| Q9) | <p>a) Light from the lamp is not reflected off the bear due to the black box obstructing the pathway of light. Hence bear cannot be seen.</p> <p>b) Tick (iii)</p> |