HENRY PARK PRIMARY SCHOOL
TERM REVIEW 2019
PRIMARY 5 SCIENCE

25

Name: _____ ( ) **Date: 21 August 2019**

Class: Pr 5 _____ **Parent's Signature:** _____

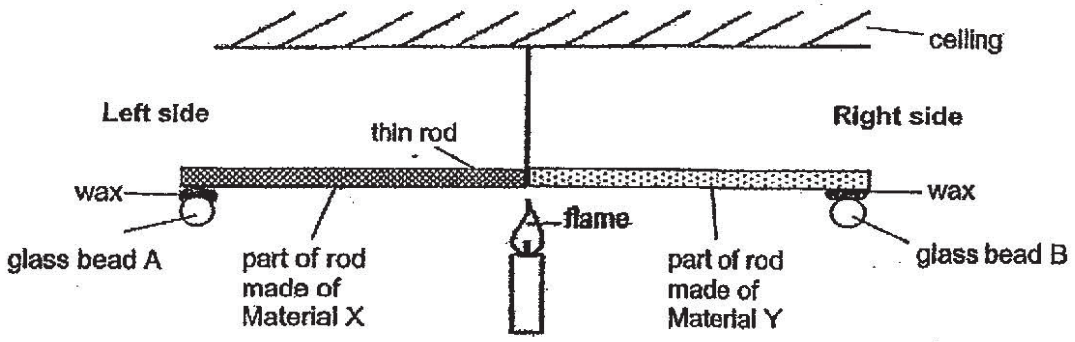
Duration: 40 minutes

Section A: Multiple-Choice Questions (14 marks)

For each question from 1 to 7, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4) and write the correct answer (1, 2, 3 or 4) in the table provided.

Q1	Q2	Q3	Q4	Q5	Q6	Q7

1. Jake hung a thin rod made of two materials, X and Y, from the celling. The rod was balanced at the centre in the beginning. Two identical glass beads, A and B, were attached to the ends of the rod by the same amount of wax as shown in the diagram below.



After heating the centre of the rod with a flame for some time, the rod suddenly tilted downwards at the left side.

Which statement(s) below is/are correct?

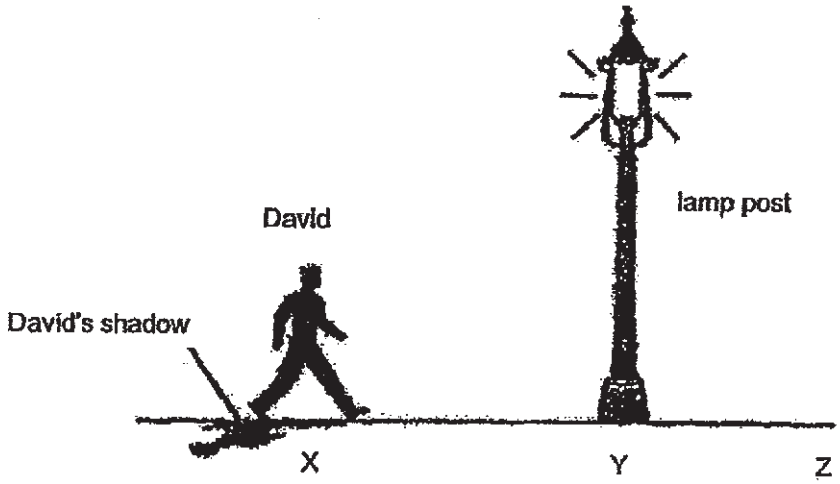
A Material X is heavier than Material Y.
B Mass of Material X increased after heating.
C Material X is a poorer conductor of heat than Material Y.

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

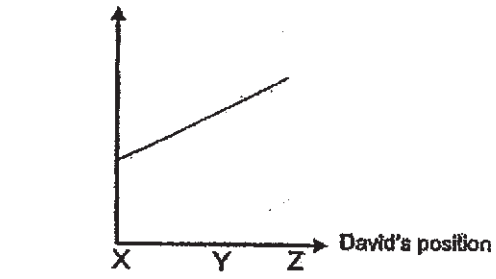
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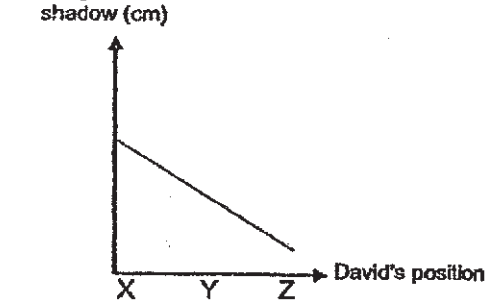
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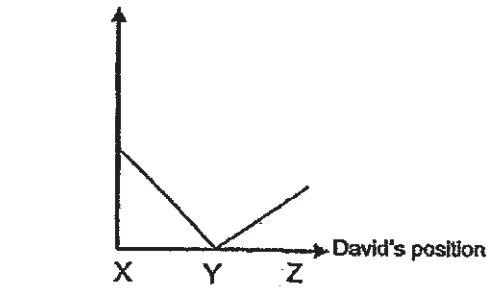
2. David was walking along a dark street on a moonless night. He noticed that the length of his shadow changed as he walked from point X to point Z.

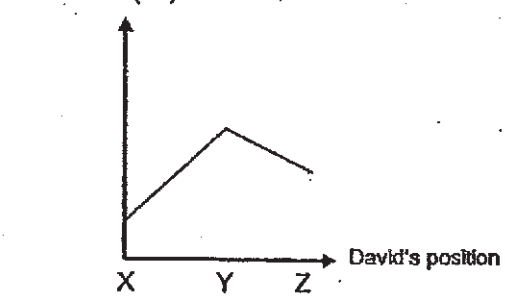


Which of the following graphs correctly shows the changes in the length of his shadow as David walked from point X to point Z?

(1)


(2)


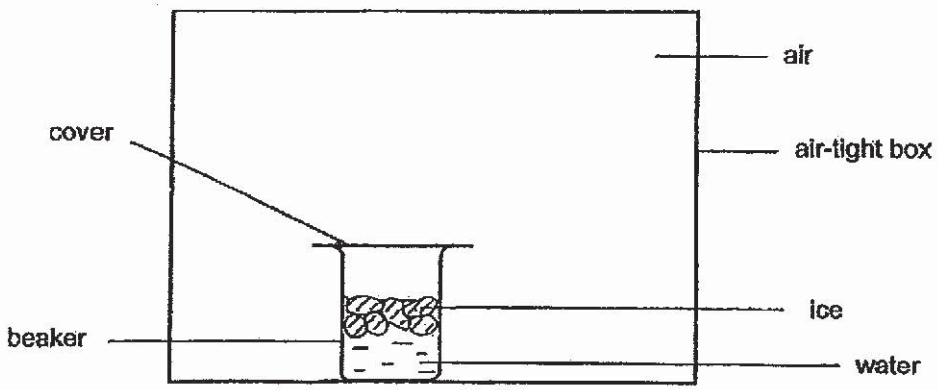
(3)


(4)


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3. A beaker containing some water and ice is placed in an air-tight box as shown in the diagram below. The set-up was placed in a room with a temperature of 25°C.

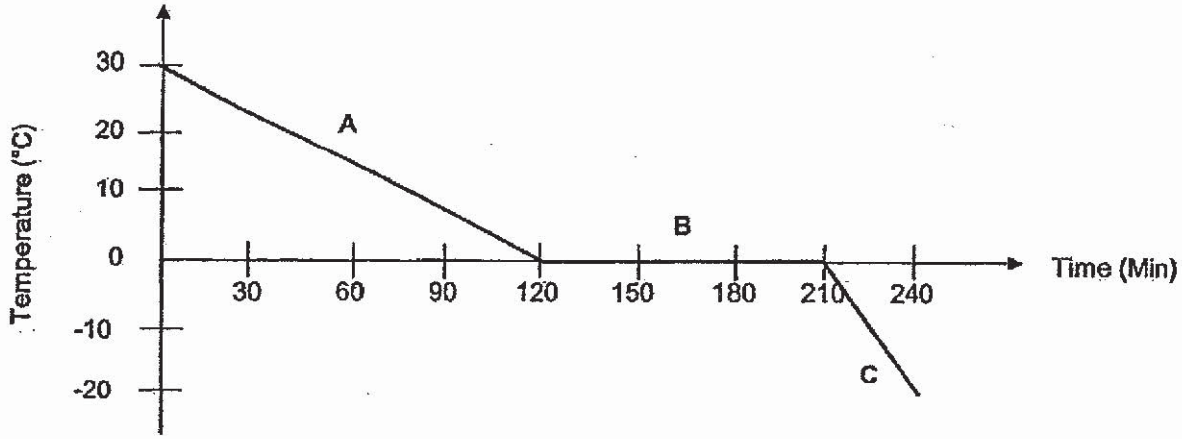


Which of the following observations about the air in the box are correct after a few minutes?

A: The amount of water vapour will decrease.
B: The amount of water vapour will increase.
C: The temperature will decrease.
D: The temperature will increase.

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

4. The graph below shows the changes in the temperature of water in a cup.



At which part(s), A, B and/or C, is/are there a loss of heat?

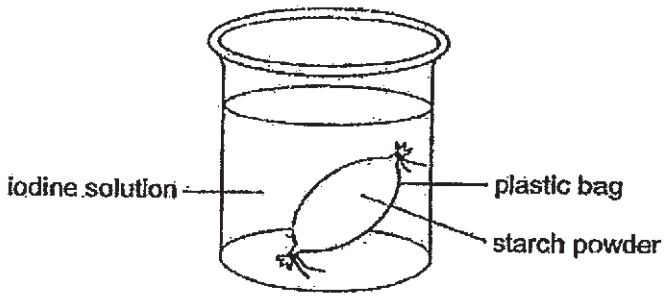
(1) A only
(2) B only
(3) A and C only
(4) A, B and C

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5. Richard set up an experiment to study the movement of substances. He placed a plastic bag containing starch powder, which is white in colour, into a beaker of iodine solution as shown in the diagram below.

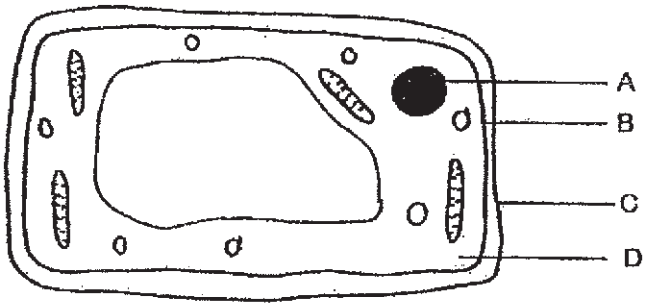
Iodine solution, a yellowish-brown solution, turns blue-black when it mixes with starch.



The following 2 observations were made at the end of the experiment:

- A blue-black colour was seen in the plastic bag containing the starch powder.
- The iodine solution remained yellowish-brown.

Which part of a plant cell has the same function as the plastic bag?



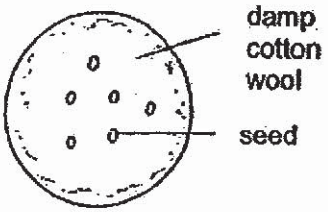
(1) A
(2) B
(3) C
(4) D

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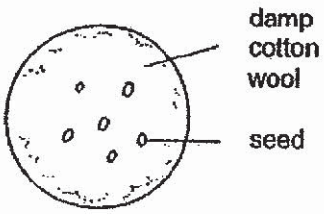
6. Raju set up an experiment as shown in the diagram below. After one week, it was observed that some green bean seeds grew into seedlings while others did not.

<u>next to an open window</u>



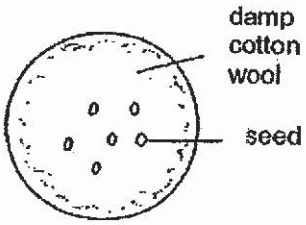
petri dish A

<u>In a cupboard</u>



petri dish B

<u>In a refrigerator</u>



petri dish C

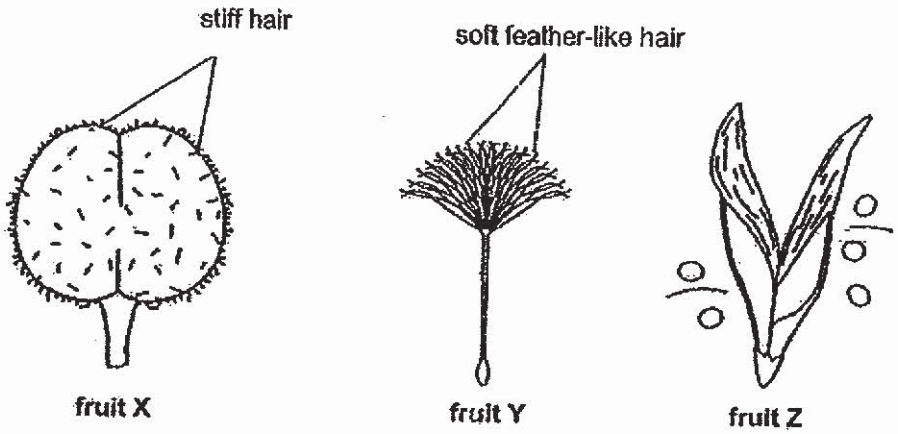
In which petri dish/dishes, A, B and/or C, was Raju likely to observe the seeds growing into seedlings?

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

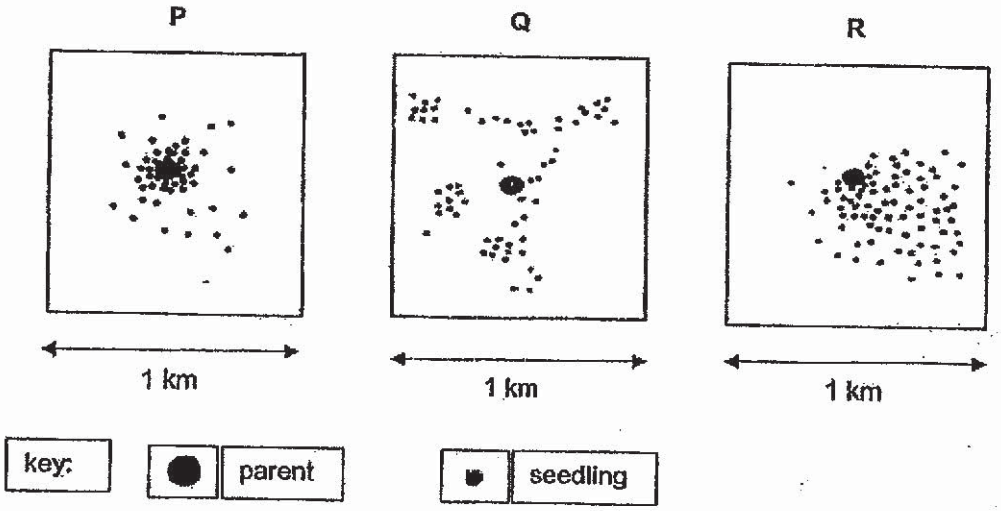
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7. The diagram below shows three different fruits, X, Y and Z.



The maps P, Q and R below show where the parent plants and their seedlings are growing.



Which one of the following shows correctly the pattern of dispersal of fruits X, Y and Z as shown in maps P, Q and R?

	fruit X	fruit Y	fruit Z
(1)	P	Q	R
(2)	Q	R	P
(3)	R	P	Q
(4)	R	Q	P

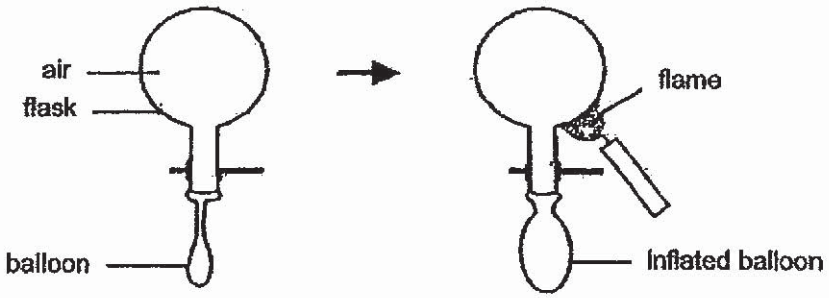
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Section B (11 marks)

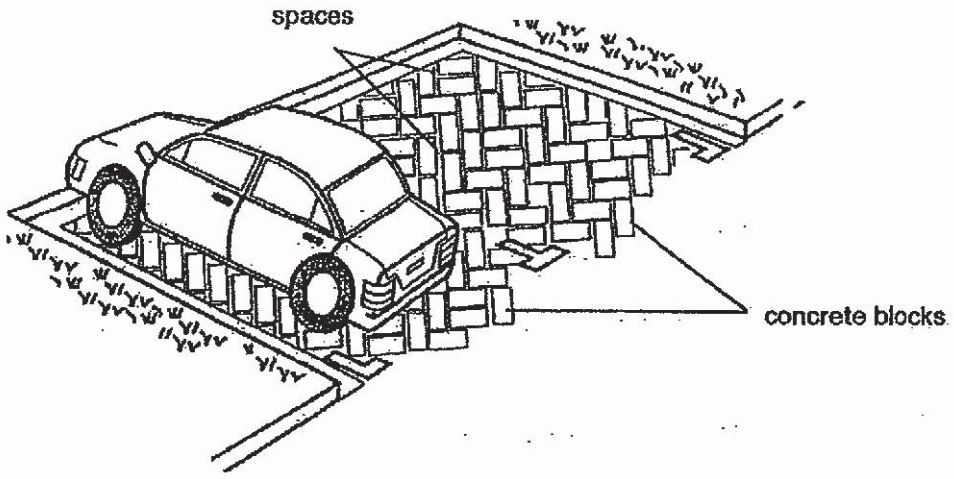
Write your answers to questions 8 to 12 in the spaces given.

8. Matthew conducted an experiment shown below.



a) Why did the balloon become inflated when the flask was heated? [1]

The diagram below shows carpark lots which are often covered with concrete blocks with spaces between them.

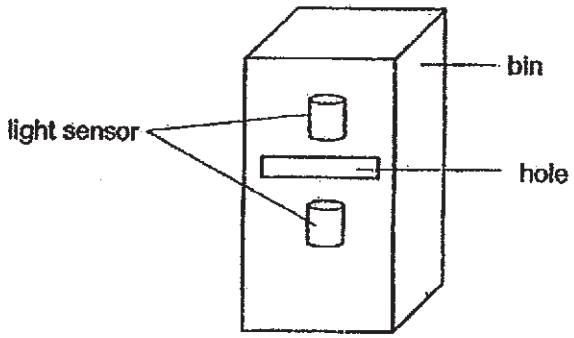


b) Explain why there are spaces between the concrete blocks. [1]

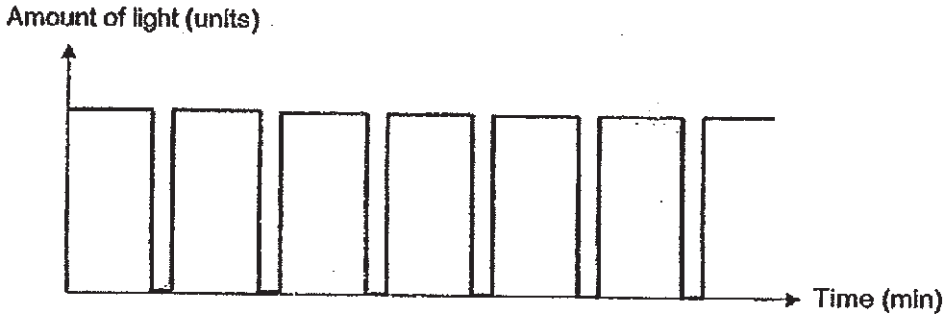
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9. A group of students used a light source and a light sensor to count the number of drink cartons that were thrown, one at a time, through the hole into a bin as shown below.



The results were recorded and represented in the graph below:



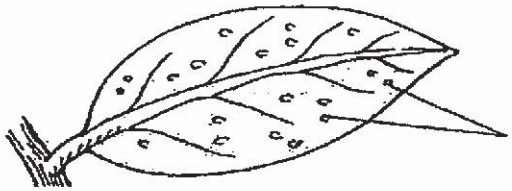
a) Explain how the group of students was able to count the number of drink cartons that were thrown through the hole into the bin using the set-up above. [1]

b) Based on the above graph, how many drink cartons went through the hole? [1]

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10. Ben noticed some water droplets on the surfaces of the leaves of plants early in the morning. He also observed that it had not rained the night before.

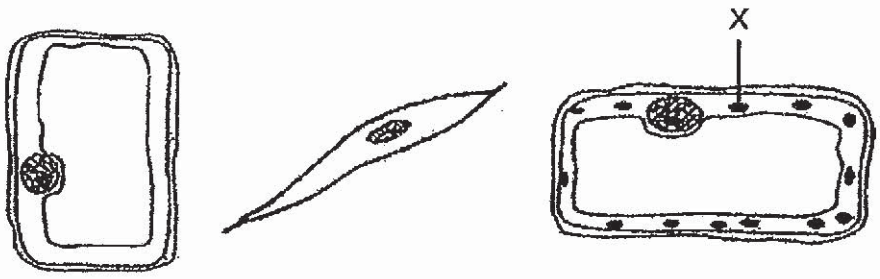


Explain why water droplets are found on the surfaces of the leaves. [2]

_____

_____

11. The diagram below shows three cells, A, B and C.



cell A cell B cell C

a) State one similarity and one difference between cell A and cell B. [1]

Similarity: _____

Difference: _____

b) Name part X and state its function. [1]

_____

_____

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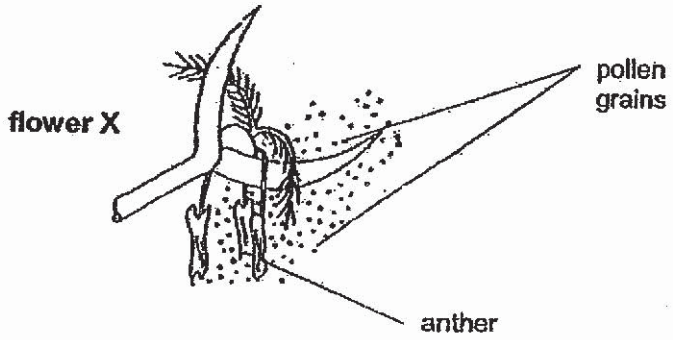
12. Pollination is a process in the reproduction of flowering plants.

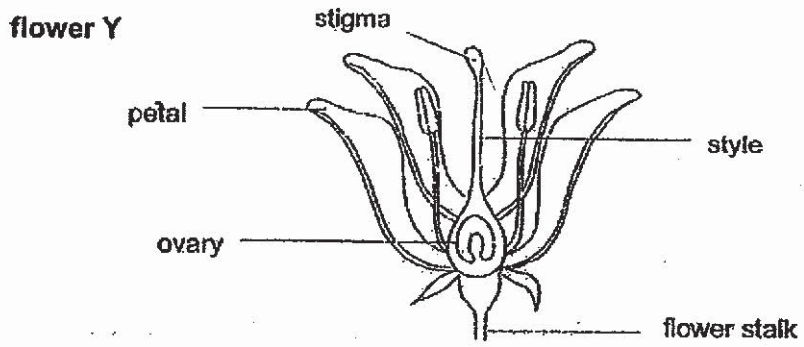
(a) Describe the process of pollination. [1]

_____

_____

The diagram below shows two flowers, X and Y.





b) By studying the diagrams, how are flower X and flower Y pollinated? [1] [1]

(i) Flower X is pollinated by _____

(ii) Flower Y is pollinated by _____

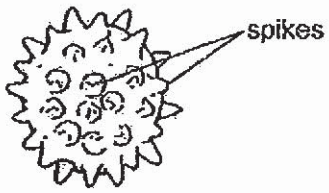
Question 12 continues on the next page

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Question 12 continues on this page

The diagrams below show two pollen grains, R and S.



pollen grain R



pollen grain S

(c) Which pollen grain, R or S, is produced by flower X? Give a reason for your answer. [1]

_____

_____

END OF PAPER

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LEVEL : PRIMARY 5
SUBJECT : SCIENCE
TERM : 2019 CA2

SECTION A

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

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Correction sheet for P5 Science TR 2019

Qn	Suggested answer	Student's correction
8a	The air in the flask **gains heat from the flame and expands**.	
8b	On a **hot day**, the concrete blocks will gain heat and expand. The space allow the blocks to expand without buckling/ cracking.	
9a	The drink cartons will **block the light** and the light **sensor will not detect any light.**	
9b	6	
10	The **(warmer) water vapour in the surrounding** air comes into contact with the **cooler surface of the leaves, loses heat** and **condenses into water droplets.**	
11a	Both cells have a nucleus / Both cells have cytoplasm / Both have cell membrane. Cell A has a cell wall but Cell B does not. / Cell A has a fixed shape but not Cell B.	
11b	Chloroplast. It contains chlorophyll which traps light for photosynthesis / for the plant to make food.	
12a	It is a **transfer of pollen grains from the anther to the stigma.**	
12b	(i) wind (ii) insects / birds / animals	
12c	Pollen grain S. It has a smooth surface which makes it easily carried away by wind. / which will not stick to the body of animals.	

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