Name : _____ ( )

Class : Primary 5 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL

Primary 5

2025

Term 2 Weighted Assessment

SCIENCE

BOOKLET A

Total Time for Booklets A and B: 50 minutes

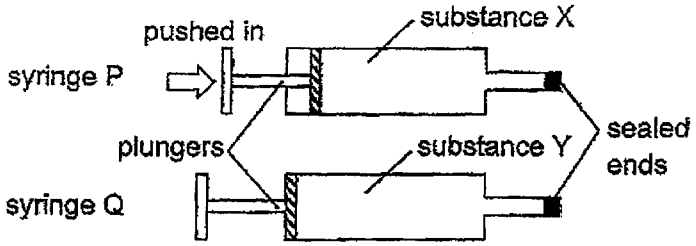
18 questions
36 marks

Do not open this booklet until you are told to do so.
Follow all instructions carefully.

This paper consists of 9 printed pages.

Section A (18 x 2 marks = 36 marks)
For each question from 1 to 18, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). **Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet provided.**

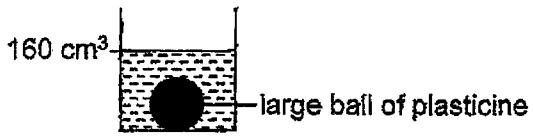
1. The diagram below shows 2 syringes P and Q containing substances X and Y respectively. The ends of both syringes were then sealed and their plungers were pushed in.



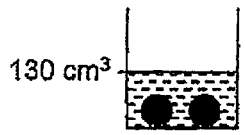
It was observed that the plunger in P could be pushed in slightly but the plunger in Q could not be pushed in at all. Based on the observation, what could substances X and Y be?

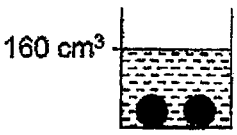
	Substance X	Substance Y
(1)	water	milk
(2)	milk	oxygen
(3)	oxygen	nitrogen
(4)	nitrogen	water

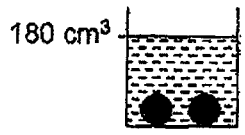
2. The diagram below shows the water level after a ball of plasticine was placed into a beaker.

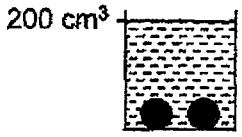


The same ball of plasticine was taken out of the beaker, cut and reshaped into 2 smaller balls of plasticine of equal volume. Both the smaller balls were then lowered into the beaker of water. Which of the following shows the correct water level in the beaker in the end?

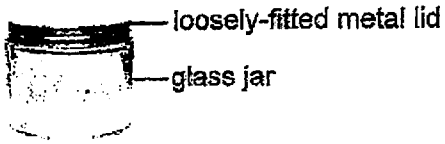
(1)


(2)


(3)


(4)


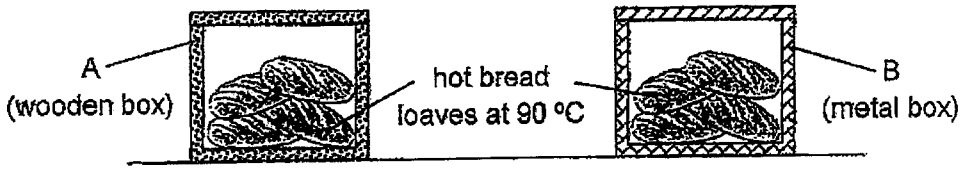
3. The diagram below shows a metal lid that is too loose to be tightened onto a glass jar.



Which of the following actions would help to tighten the metal lid most easily?

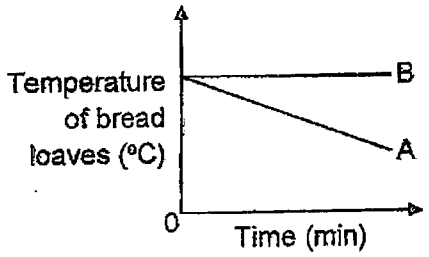
(1) Place only the glass jar in ice water.
(2) Place only the metal lid in hot water.
(3) Place ice cubes in the glass jar and wrap the metal lid with a hot towel.
(4) Place ice cubes on the metal lid and wrap the glass jar with a hot towel.

4. The diagram below shows 2 boxes A and B, each made of a different material. An equal number of hot bread loaves, each at 90 °C were placed into each box on the kitchen table.

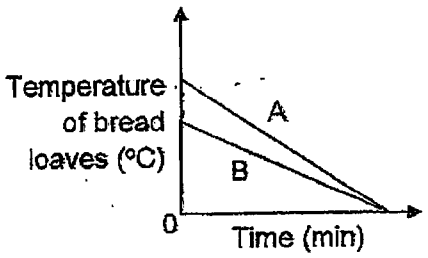


Based on the above diagram, which of the following best represents the change in temperature of the bread loaves in each box after some time?

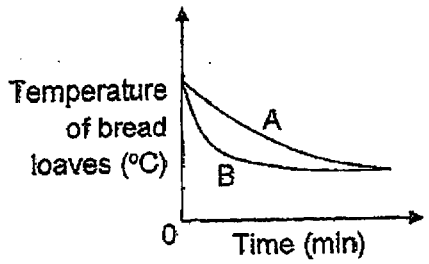
(1)



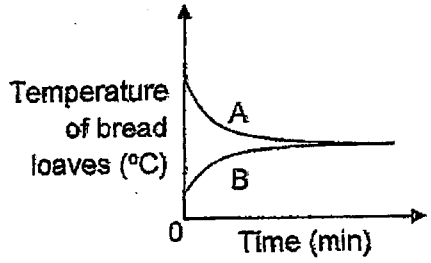
(2)



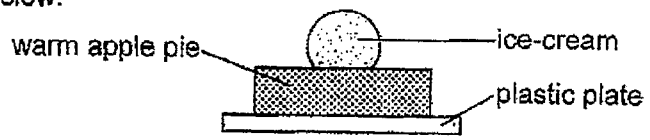
(3)



(4)



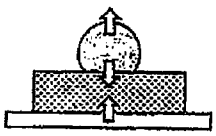
5. Aminah took out a slice of warm apple pie from the oven and placed it on a plastic plate in the kitchen. She then placed a scoop of ice-cream onto the pie as shown below.



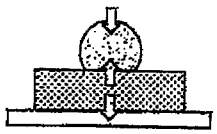
The arrows in the diagrams below show the flow of heat.

Which of the following correctly shows the direction of heat flow between the ice-cream, apple pie and plastic plate?

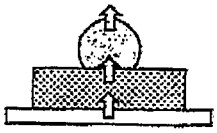
(1)



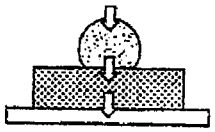
(2)



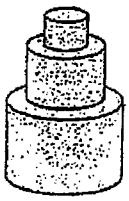
(3)



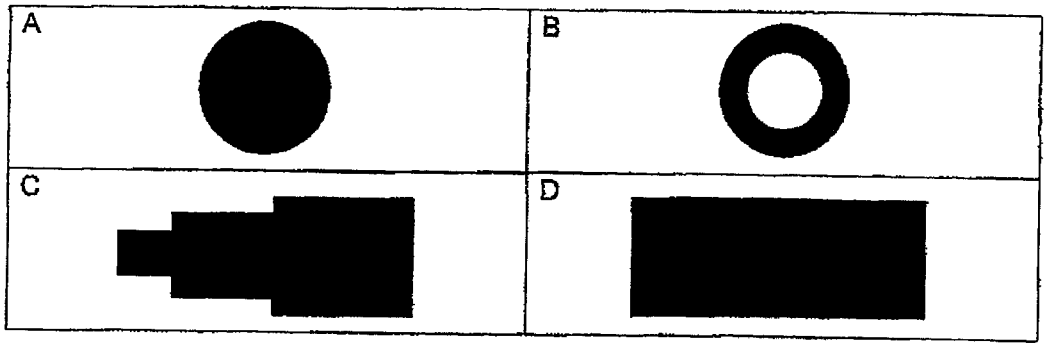
(4)



6. The diagram below shows an object made of wood.

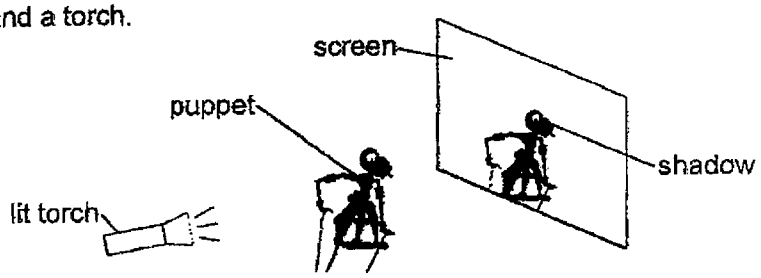


Based on the diagram, which of the following are possible shadows cast by the object above?



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

7. The diagram below shows a shadow play performed by placing a puppet between a screen and a torch.

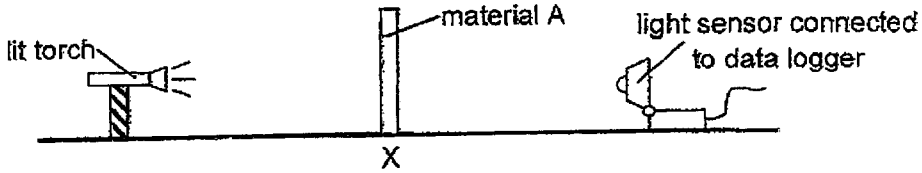


Which of the following action(s) result(s) in a smaller shadow?

A Move the torch closer to the puppet.
B Move the screen closer to the puppet.
C Move the torch further away from the puppet.
D Move the screen further away from the puppet.

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

8. Raj conducted an experiment to find out if the type of material affects the amount of light passing through the material. He placed material A at position X and then measured the amount of light detected.



He then repeated the experiment using materials B, C and D and recorded the results in the table below.

Material	Average amount of light detected (units)
A	380
B	150
C	40
D	0

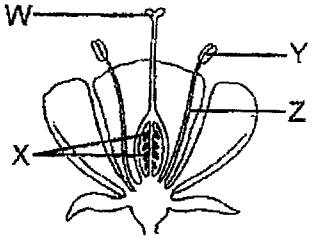
Based on the results, which material A, B, C or D is the most suitable to be made into stage curtains for a school hall?

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

9. Which of the following characteristics cannot be passed down from parents to their offsprings?

(1) Type of eyelids
(2) Type of earlobes
(3) Shape of hairline
(4) Length of fingernails

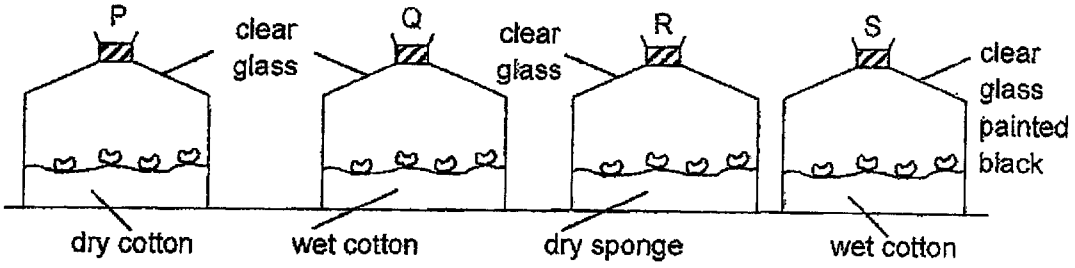
10. The diagram below shows the different parts of a flower.



Which of the parts W, X, Y or Z enables the flower to receive pollen grains?

(1) W
(2) X
(3) Y
(4) Z

11. Ali conducted an experiment to find out if the presence of light affects the germination of seeds. He placed the set-ups below in a classroom and used 4 similar seeds for each set-up.



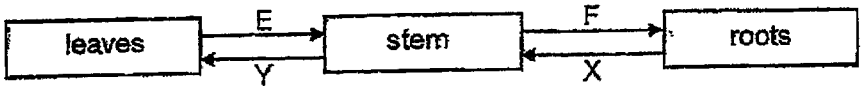
Which two of the set-ups should he use in order to carry out a fair test?

(1) P and Q
(2) P and R
(3) Q and S
(4) R and S

12. Which of the following is true about the difference between inhaled and exhaled air?

(1) Inhaled air is warmer than exhaled air.
(2) Inhaled air has lesser oxygen than exhaled air.
(3) Inhaled air has lesser nitrogen than exhaled air.
(4) Inhaled air has lesser water vapour than exhaled air.

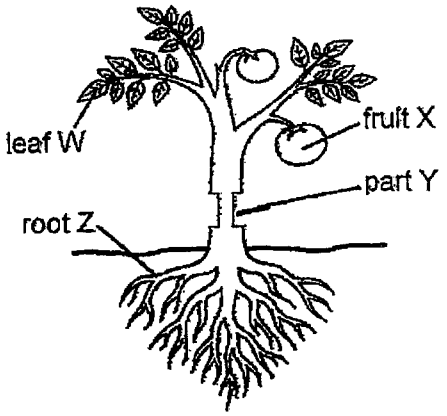
13. Study the diagram below.



Which arrows show the correct direction for the transport of water in plants?

(1) E and F only
(2) E and X only
(3) F and Y only
(4) X and Y only

14. The diagram below shows a plant with its food-carrying tubes removed at part Y.

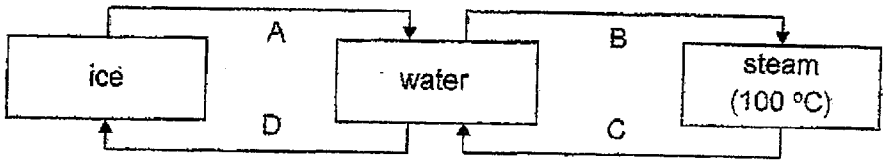


Which of the following is most likely to be observed about the plant above after several days?

A Fruit X will become larger.
B Leaf W will turn brown and dry up.
C Root Z will become smaller and die.
D The area of the stem above part Y will swell up.

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

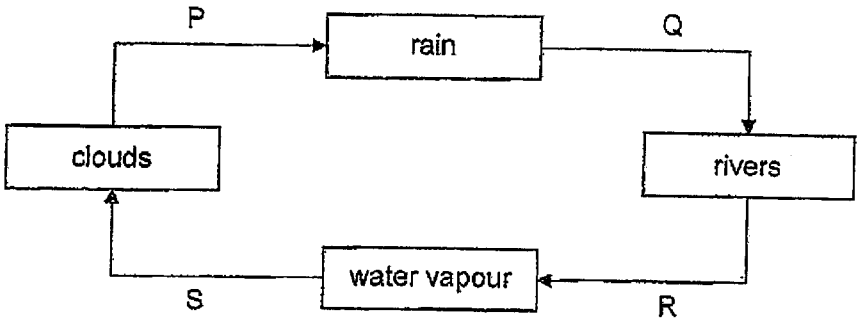
15. Study the diagram below.



Based on the diagram, which of the following correctly show processes A, B, C and D?

	A	B	C	D
(1)	boiling	melting	condensation	freezing
(2)	boiling	melting	freezing	condensation
(3)	melting	boiling	condensation	freezing
(4)	melting	boiling	freezing	condensation

16. Study the water cycle below.



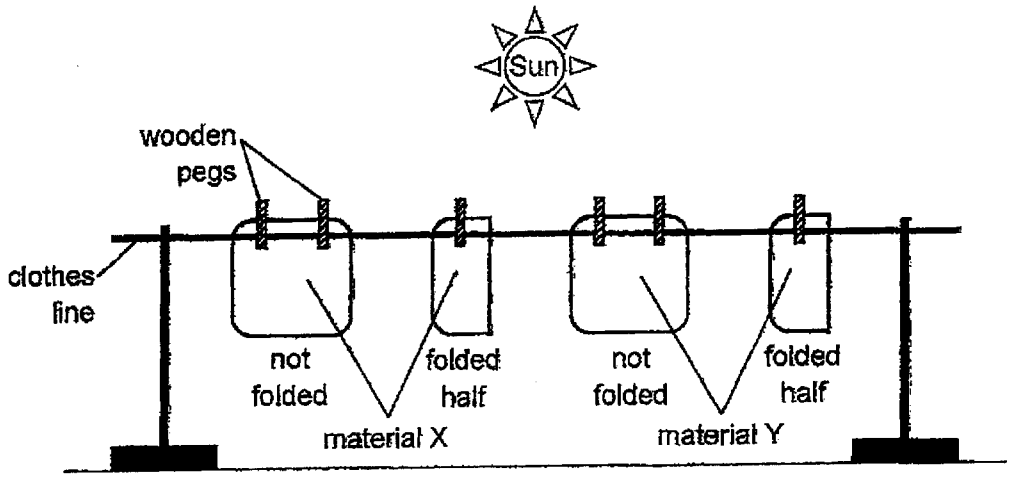
In the water cycle, at which point P, Q, R or S will there be a change in the state of water from liquid to gas?

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

17. Which of the following actions help to conserve water?

(1) Fixing a leaking tap.
(2) Taking long showers.
(3) Keeping the tap running while brushing your teeth.
(4) Using the full flush feature to flush the toilet bowl all the time.

18. Selvi conducted an experiment using 4 cloths of similar sizes. At the start, equal amounts of water were poured onto each cloth and then hung onto a clothes line to dry under the Sun as shown below. She later measured the time taken for each cloth to be fully dried.



Which of the following are possible aims of the set-up above?

A To find out if the amount of wind affects the rate of evaporation.
B To find out if the type of material affects the rate of evaporation.
C To find out if the exposed surface area affects the rate of evaporation.
D To find out if the surrounding temperature affects the rate of evaporation.

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

END OF BOOKLET A

Name : _____ ( )

Class : Primary 5 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL

Primary 5

2025

Term 2 Weighted Assessment

SCIENCE

BOOKLET B

Total Time for Booklets A and B: 50 minutes

5 questions
14 marks

Do not open this booklet until you are told to do so.
Follow all instructions carefully.
Answer all questions.

This booklet consists of 6 printed pages.

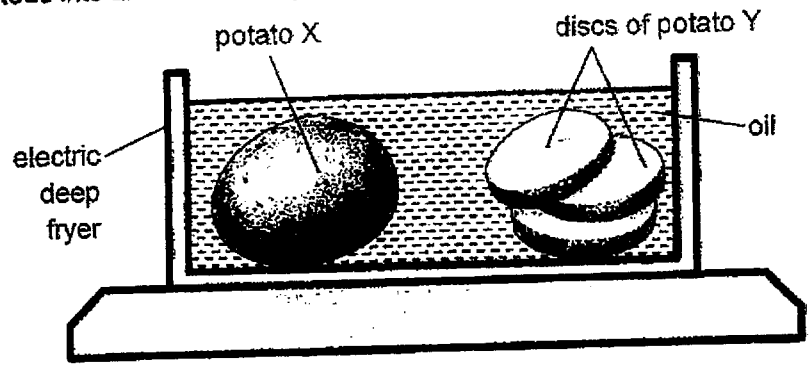
Booklet A	36
Booklet B	14
Total	50

_____

Parent's Signature/Date

Section B (14 marks)
For questions 19 to 23, write your answers in this booklet. The number of marks available is shown in the brackets at the end of each question or part question.

19. Lucia conducted an experiment using 2 potatoes X and Y, of the same mass. She sliced potato Y into smaller discs as shown. She then placed all the potatoes into an electric deep fryer and turned the fryer on.



(a) State a variable that needs to be kept constant for a fair test. [1]

_____

She measured and recorded the time taken for both potatoes to be completely fried in the table below.

	Time taken to be completely fried (min)
Potato X (Whole potato)	13
Potato Y (All discs)	6

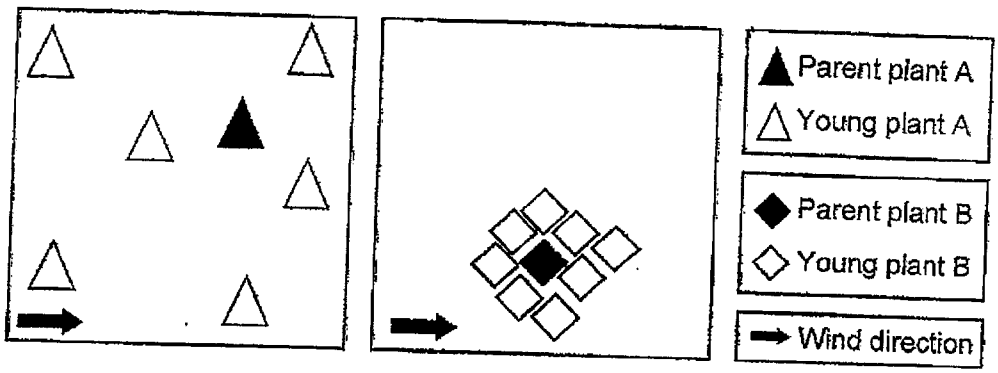
(b) Based on the results above, explain why the discs of potato Y took a shorter time to be completely fried. [2]

_____

_____

_____

20. The diagram below shows the location of parent plants A and B and their young plants.



(a) Based on the diagram, which young plant A or B will grow better? Explain your answer. [2]

(b) Name the method of seed dispersal for the fruit of plant B. [1]

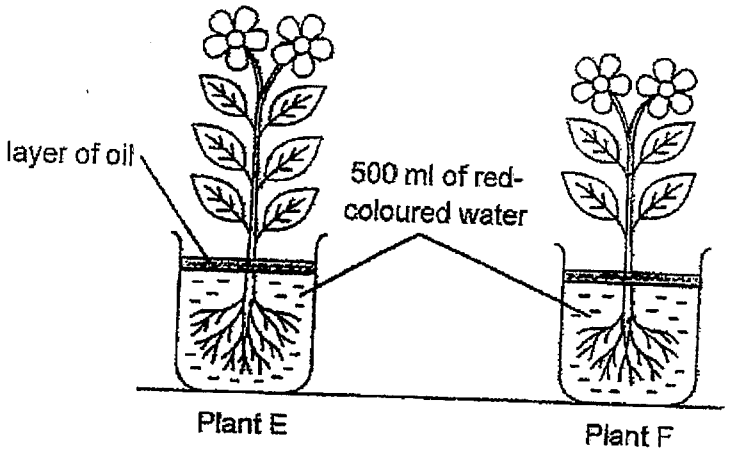
21. (a) State the function of the lungs in the human respiratory system. [1]

Hui Shan participated in a vertical race that required her to run up the stairs of a 7-storey building. She ran from the ground floor to the rooftop. She recorded her breathing rates before the start and upon finishing the race in the table below.

Breathing rate (breaths per minute)	
Before the start of the race (at rest on the ground floor)	**Upon finishing the race (at the rooftop)**
12	35

(b) Based on the results, explain why her breathing rate had increased. [2]

22. An experiment was conducted using plants E and F as shown below.



(a) What can be measured in order to know which plant, E or F, has absorbed more water? [1]

_____

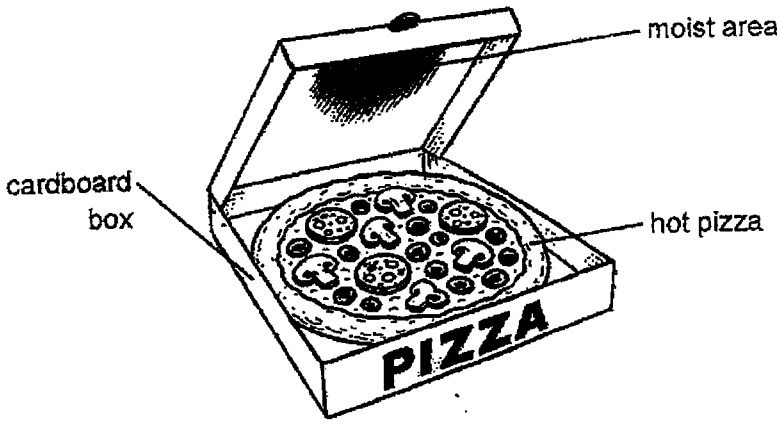
(b) What change can be observed in the flower petals of both plants after a few days? Explain your answer. [1]

_____

_____

_____

23. Nigel ordered a pizza delivery from a restaurant. When the pizza arrived, he noticed that the inner surface of the cardboard box was moist as shown below.



(a) Explain how the moist area in the box was formed. [2]

(b) State one action that can be done to reduce the size of the moist area in the box. [1]

END OF PAPER

YEAR : 2025
LEVEL : PRIMARY 5
SCHOOL : CHIJ ST NICHOLAS GIRLS' SCHOOL
SUBJECT : SCIENCE
TERM : TERM 2 WEIGHTED ASSESSMENT

(BOOKLET A)

Q1	4	Q2	2	Q3	4	Q4	3	Q5	2
Q6	2	Q7	4	Q8	4	Q9	4	Q10	1
Q11	3	Q12	4	Q13	4	Q14	4	Q15	3
Q16	3	Q17	1	Q18	2				

(BOOKLET B)

Q19	a)	Type of potato.
	b)	The disc of potato Y has a greater surface area in contact with the oil and gain heat from the oil faster.
Q20	a)	Young plant A. Young plant A are randomly scattered further from the parent plant so there is less overcrowding and competition for sunlight, water, nutrients and space with the parent plant.
	b)	Splitting
Q21	a)	The lungs allow gaseous exchange in humans.
	b)	She needs more energy so she breathes in faster to take in more oxygen and remove carbon dioxide for a greater rate of respiration.
Q22	a)	The amount of water left in the beaker after a few days.
	b)	The flower petals would be red as the roots absorbed the red-coloured water and the wate carrying tubes transported the red-coloured water absorbed by the roots to the flower petals.
Q23	a)	Warm water vapour from the hot pizza comes into contact with the cooler inner surface of the cardboard box, lose heat and condense to become water droplets which was absorbed by the cardboard box.
	b)	Poke holes on the cover.

END