Ai Tong School

P5 Science

2025 Term 3 Review

Name: _____ (  )  Class: 5 _____

Date: _____  Marks: _____/30

Duration: 40 minutes  Parent's Signature: _____

**Section A (18 marks)**

For each question from 1 to 9, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and write your answer in the bracket provided.

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1. Which of the following substances are **not** transported by the water-carrying tubes of a plant?

   A food
   B oxygen
   C mineral salts
   D carbon dioxide

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

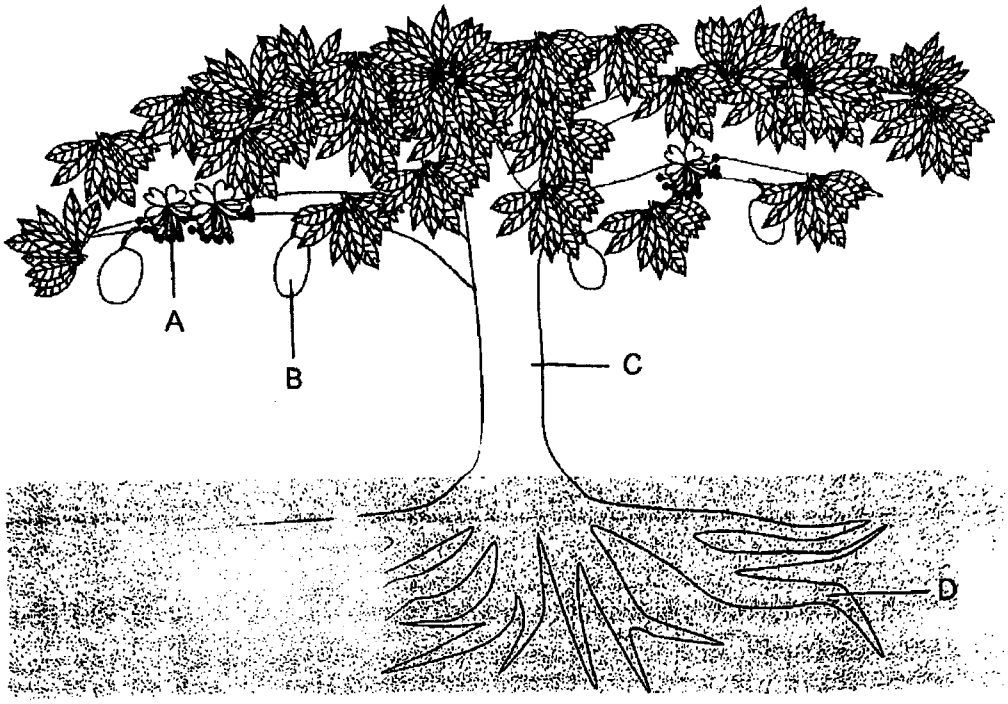
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2. The diagram below shows a tree.




In which parts of the tree can water-carrying tubes be found?

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

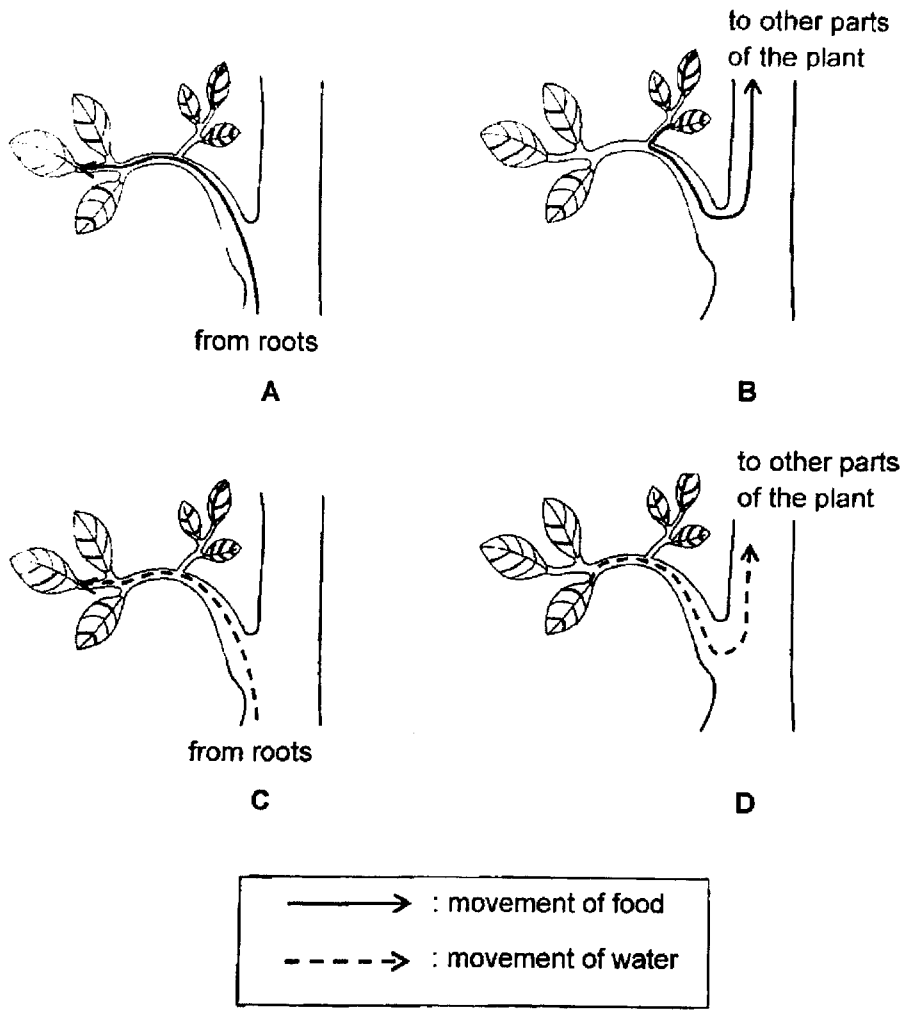
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3. Bala drew some arrows to represent the direction of the movement of water and food in a plant.




Which arrow(s) is/are correct?

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

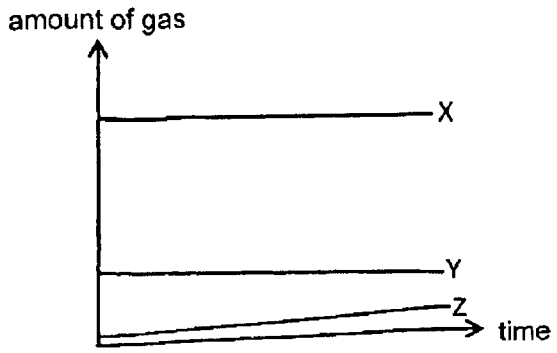
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4. Chen stayed in a closed room and monitored the change in gases using a datalogger connected to gas sensors.
The changes in the amount of gases is shown in the graph below.




Which of the following correctly identifies the gases in the graph?

| | X | Y | Z |
|---|---|---|---|
| (1) | carbon dioxide and water vapour | oxygen | nitrogen |
| (2) | oxygen | carbon dioxide and water vapour | nitrogen |
| (3) | nitrogen | oxygen | carbon dioxide and water vapour |
| (4) | nitrogen | oxygen | carbon dioxide and water droplets |

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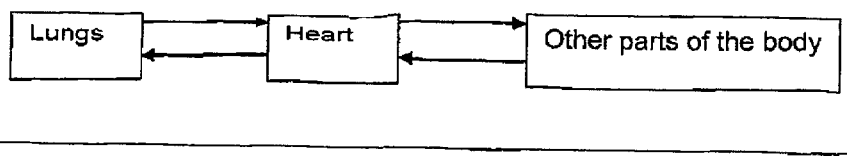
5. Which of the following correctly states the human system and its parts?

| | System | Parts | | |
|---|---|---|---|---|
| (1) | circulatory | heart | blood | small intestine |
| (2) | circulatory | heart | lungs | blood vessels |
| (3) | respiratory | mouth | windpipe | lungs |
| (4) | respiratory | nose | windpipe | lungs |

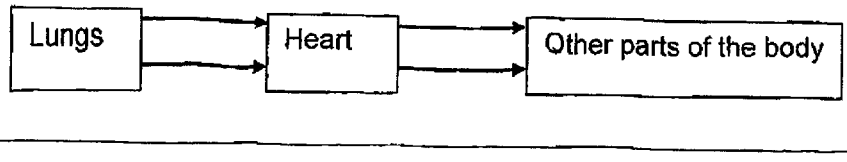
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6. Which of the following correctly shows the circulation of blood in a human body?

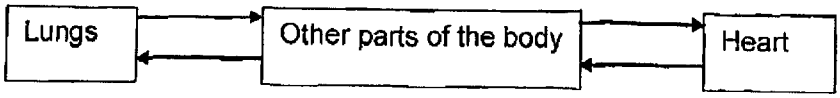
(1)



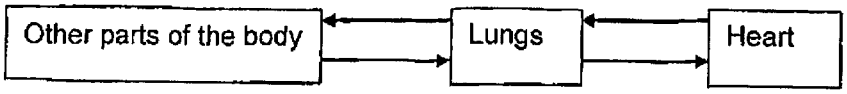

(2)




(3)




(4)




( )

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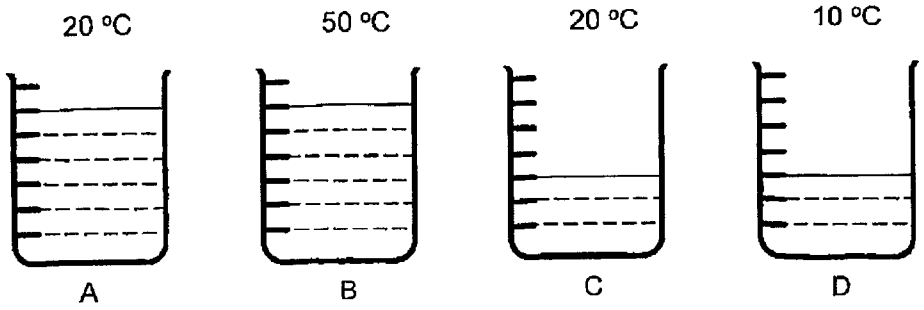
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7. Devi wants to find out if the type of activity affects a person's heart rate. Which of the following shows the correct variables to conduct the investigation?

| | Variable to change | Variable to keep constant | Variable to measure |
|---|---|---|---|
| (1) | type of activity | location of experiment | heart rate |
| (2) | type of activity | location of experiment | breathing rate |
| (3) | location of experiment | type of activity | heart rate |
| (4) | location of experiment | type of activity | breathing rate |

( )

8. Four identical beakers of water were placed on a table. The amount of water in each beaker and their temperature are as shown below.




Which of the following shows the correct arrangement of beakers, from the most heat to the least heat?

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

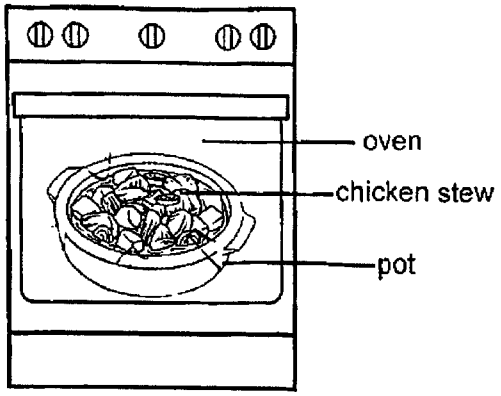
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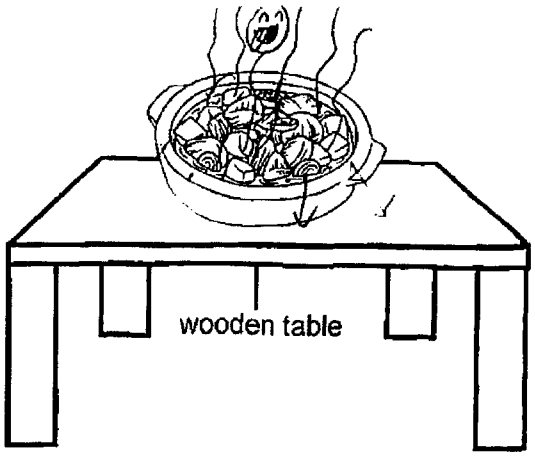


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9. Elly removed a pot of chicken stew from the oven and placed it on a wooden table in an air-conditioned room.




Temperature in the oven: 170 °C




Temperature in the room: 20 °C

Based on the information given above, which of the following statement(s) about heat transfer is/are definitely correct?

A Heat travelled from the table to the pot.
B Heat travelled from the oven to the chicken stew.
C Heat travelled from the chicken stew to the oven.
D Heat travelled from the chicken stew to the surrounding air in the room.

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

(  )

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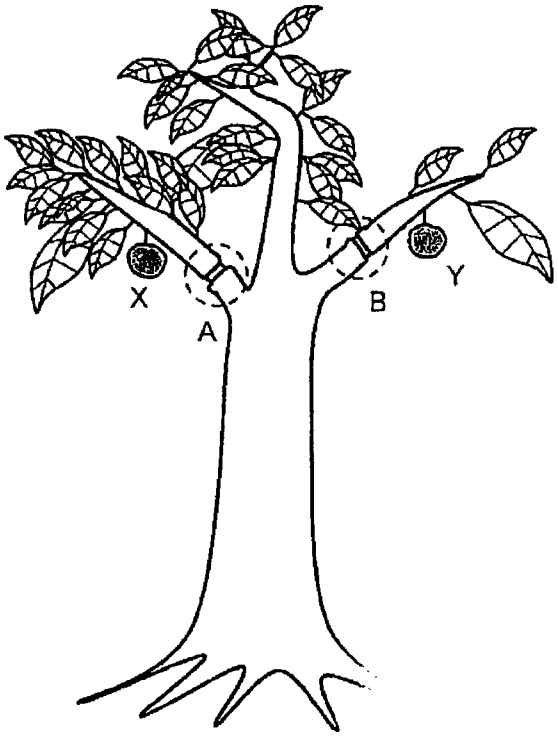
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**Section B (12 marks)**

For questions 10 to 13, write your answers in the spaces provided.

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

10. Faizal wants to get bigger fruits from his fruit tree. He removed the food-carrying tubes of a fruit tree at parts A and B as shown below.




(a) Explain how the removal of the food-carrying tubes may cause the fruits to grow bigger. [1]

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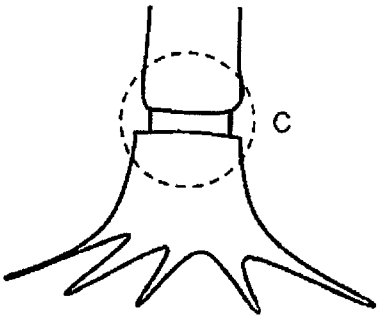


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(Question 10 continues here)

(b) Which will become a bigger fruit, X or Y? Explain your answer. [1]

(c) Faizal made another cut, removing only the food-carrying tubes at part C as shown.




Explain how the cut at C may cause the tree to die. [2]

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11. (a) State the function of the human respiratory system. Include in your answer the gases involved. [1]

(b) In the table below, state the name of the part that a plant and a fish use to carry out gaseous exchange. [1]

| Living thing | Part used to carry out gaseous exchange |
|---|---|
| plant | |
| fish | |

12. (a) Gillian was exercising on a stationary bike. Explain why Gillian's heart rate increases as her cycling speed increases. [2]

(b) State one difference between the plant transport system and the human transport system. [1]

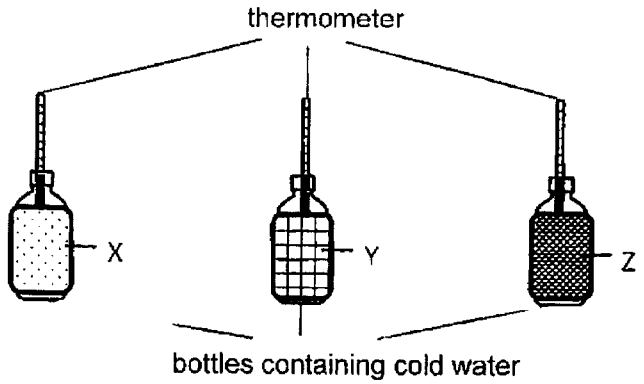
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13. Howard wrapped three identical water bottles containing cold water with three different materials, X, Y and Z. He measured the temperature of water over time and recorded the readings in a table as shown below.




| Material | Temperature of water at the start of experiment (°C) | Temperature of water at the end of experiment (°C) |
|---|---|---|
| X | 10 | 14 |
| Y | 10 | 26 |
| Z | 10 | 33 |

(a) Based on the information provided, which material, X, Y or Z is best used to make a winter jacket to keep a person warm? Explain your answer. [2]

_____

_____

_____

(b) Suggest how Howard can make his experiment more reliable. [1]

_____

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SCHOOL : AI TONG SCHOOL
LEVEL : PRIMARY 5
SUBJECT : SCIENCE
TERM : 2025 TERM 3 REVIEW

## Section A

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 |
|---|---|---|---|---|---|---|---|---|
| 3 | 4 | 2 | 3 | 4 | 1 | 1 | 3 | 3 |

## Section B

Q10a) When the food-carrying tubes are removed, it disrupts the transport of food made by the leaves transported to the roots. This can lead to more resources being allocated to parts above the girdle, potentially making them grow bigger due to reduced transport to roots.

b) Fruit X. This is because the branch with Fruit X has more leaves, which means more food is produced through photosynthesis . As a result, more nutrients are available for Fruit X to grow, making it larger than Fruit Y.

c) As the food-carrying tubes were removed, food made by the leaves cannot be transported to the roots. Hence, the roots will die, not being able to absorb water and mineral salts to the rest of the plant, causing Faizal's plant to die.

11a) The human respiratory system is to conduct gaseous exchange, involving the intake of oxygen and the removal of carbon dioxide and other gases

11b)
.

| Living things | Plants used to carry out gaseous exchange |
|---|---|
| Plant | Stomata |
| fish | Gills |

12a) As Gillian needs more energy to exercise, her heart needs to beat faster to pump more digested food, oxygen and water to the rest of her body, causing her heart rate to increase. During exercise, her body needs more energy, so her heart needs to pump faster to transport more oxygen, digested food and water to remove more carbon dioxide and other wastes faster.

b) The plant transport system does not need a pump to transport substances to all parts of the plant, but the human transport system needs a pump, which is the heart.



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13a) Material X, as the increase in temperature of water for X is the smallest. X is the poorest conductor of heat so transfer heat slowest.

b) He can conduct the experiment two more times to ensure accuracy of results and consistency of reading.



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