NANYANG PRIMARY SCHOOL
Term 3 Weighted Assessment
Science
Primary 5

20

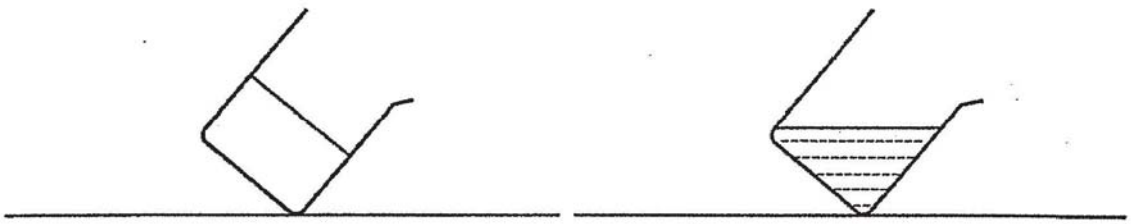
Name: _____ Date: _____

Class: 5 ____

Section A (2 marks each)

For each question from 1 to 6, four options are given. One of them is the correct answer. **Indicate your choice in the brackets provided.**

1. Xin Ren took substance X out of the freezer and left it at room temperature before heating it. The diagram below shows what he observed at 25°C and 110°C.



50ml of substance X at 25°C

50ml of substance X at 110°C

Based on Xin Ren's observations, which of the following is possible?

	Melting Point of X (°C)	Boiling Point of X (°C)
(1)	20	120
(2)	25	100
(3)	30	120
(4)	35	105

( )

2

2. Some water was left to boil in a kettle. Mist was observed above the kettle as shown in the diagram below.

Which of the following statements is correct?

(1) Mist is in the liquid state and it is formed when water vapour loses heat to the surrounding air.

(2) Mist is in the liquid state and it is formed when water droplets gain heat from the surrounding air.

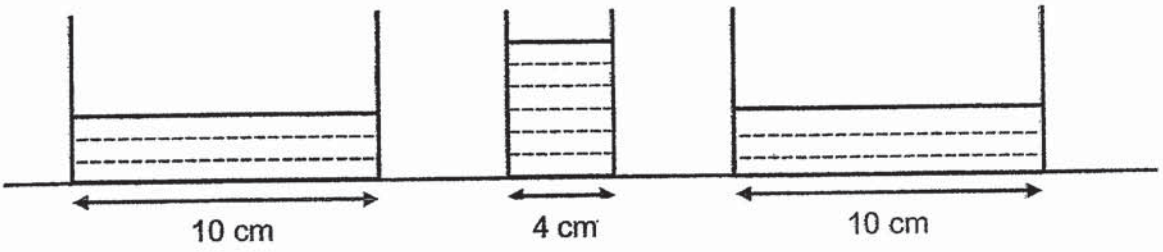
(3) Mist is in the gaseous state and it is formed when water vapour loses heat to the surrounding air.

(4) Mist is in the gaseous state and it is formed when water droplets gain heat from the surrounding air.

( )

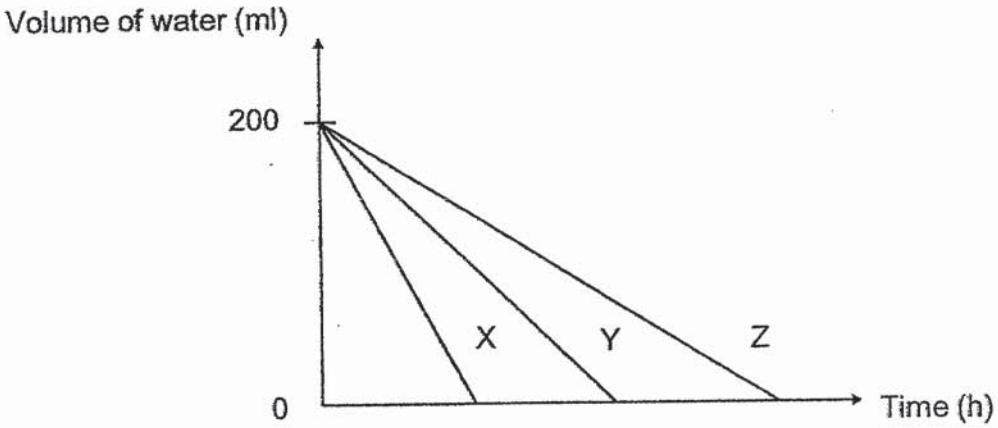
2

3. Three containers, A, B and C, were filled with 200ml of water. They were placed in rooms of different temperatures.



Container A	Container B	Container C
kept in room at 40°C	kept in room at 20°C	kept in room at 20°C

The amount of water left in the containers were measured over time. The results were plotted on the graph below.



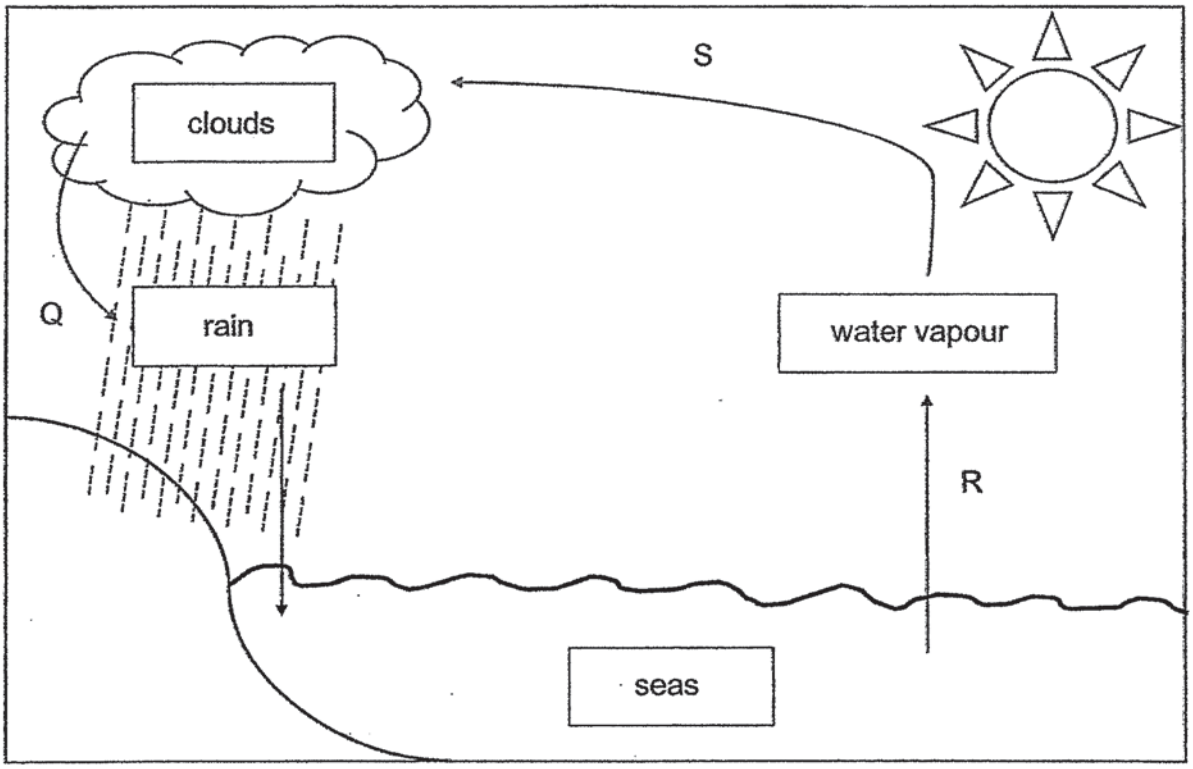
Which of the following correctly matches the graphs to the containers?

	Graph X	Graph Y	Graph Z
(1)	Container A	Container B	Container C
(2)	Container A	Container C	Container B
(3)	Container B	Container C	Container A
(4)	Container C	Container A	Container B

( )

2

4. The diagram below represents the water cycle.

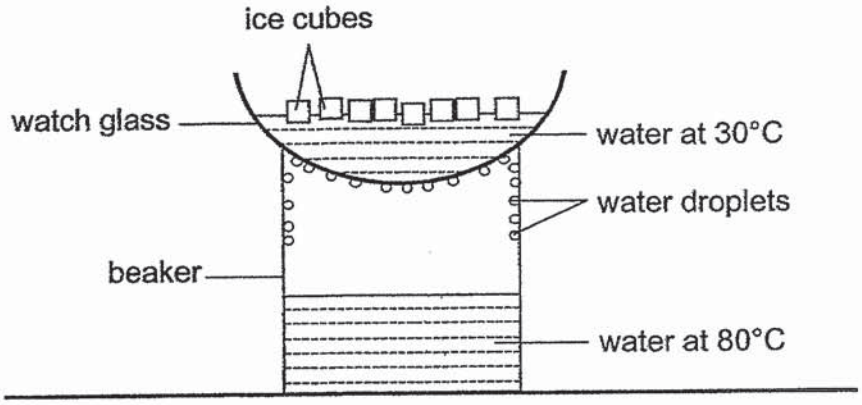


Which of the arrows represent a process which involves a change in state of water?

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

2

5. The set-up below represents the water cycle.



Which part of the set-up represents the clouds?

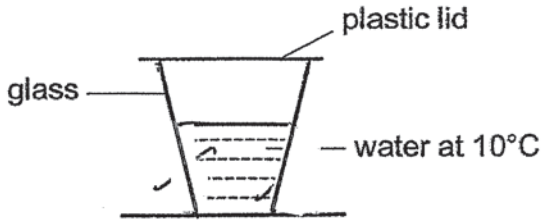
(1) ice cubes
(2) water at 30°C
(3) water at 80°C
(4) water droplets ( )

6. Which one of the following activities helps to conserve water?

(1) Taking longer showers
(2) Using a hose to wash car
(3) Using a mug to brush teeth
(4) Rinsing vegetables under running water ( )

Section B (8 marks)
For questions 7 and 8, fill in your answers in the spaces provided.

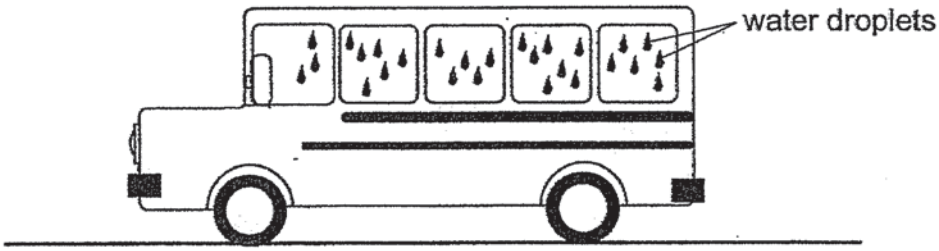
7. Nathan left a glass of water at 10°C on the table at room temperature as shown below.



After some time, Nathan observed that some water droplets formed.

(a) **Draw the water droplets** formed in the diagram above. [1]

Later that day, Nathan took an air-conditioned bus to school. He noticed that water droplets formed on the outer surface of the windows of the bus.



(b) Explain how the water droplets formed. [2]

_____

_____

_____

When Nathan arrived at school, the bus driver parked the bus at school and turned the air conditioning off. Nathan observed that the water droplets on the outer surface of the windows 'disappeared' after some time.

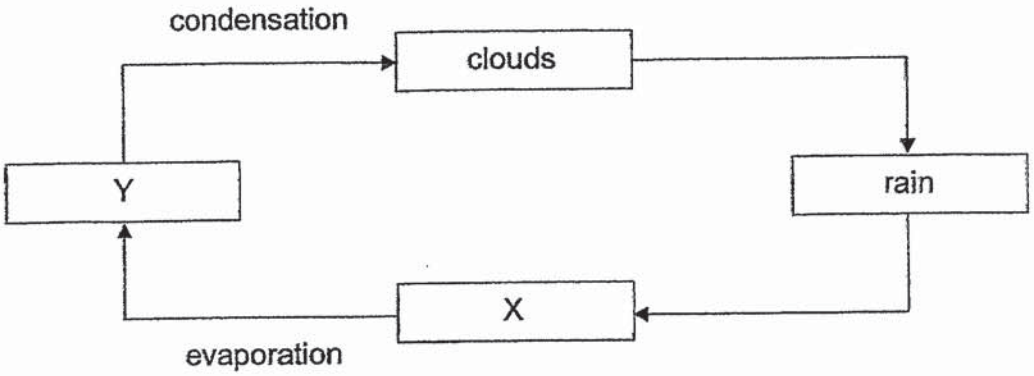
(c) Explain Nathan's observation. [1]

_____

_____

4

8. The diagram below represents the water cycle.



(a) Identify substances X and Y and place a tick (✓) in the boxes below to indicate if the substance gains heat or loses heat during the processes indicated. [2]

Substance	Gains heat	Loses heat
X: _____		
Y: _____		

(b) Explain why the Sun is needed in the water cycle. [1]

_____

_____

(c) About 70% of the Earth is covered with water. Why is there still a need to conserve water? [1]

_____

_____

~ End of Paper ~

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ANSWER KEY

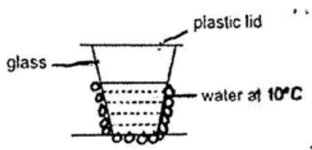
YEAR : 2020
LEVEL : PRIMARY 5
SCHOOL : NANYANG
SUBJECT : SCIENCE
TERM : CA2

SECTION A

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

SECTION B

Q7 a) outer surface of glass



b) The temperature outside the bus was higher than the inside of the bus. The warmer water vapour in the surrounding came into contact with the cooler outer surface of the windows, lost heat and condensed to form water droplets.

c) the water droplets gained heat from the surroundings and evaporated to form water vapour.

Q8 a) X : water bodies , Gain heat
Y : water vapour , Loses heat

b) The Sun provides heat for evaporation to occur. Without evaporation , the water cycle is not complete , plants and animals cannot get clean water.

c) We need to conserve water because there is actually very little drinkable water on Earth.

End.