Primary Five
Science
**Continual Assessment Two**

Section A
For each question, choose the most suitable answer and write its correct number in the box provided. (18 x 2 marks)

1. Which of the following properties remain(s) unchanged when a piece of dough is pressed?

     A : shape
     B : weight
     C : colour
     D : substance

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

2. The diagram below shows a metal ball that is suspended by a wire. A lighted candle is placed below the metal ball.
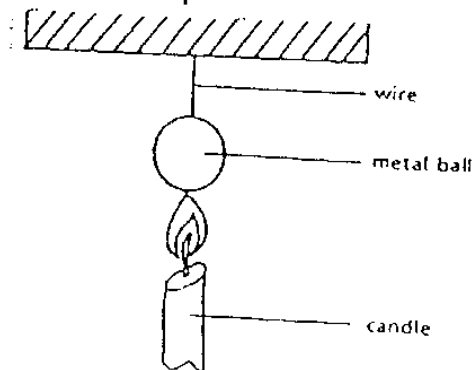
   Which of the following changes will take place?

   1)   The wire will become shorter.
   2)   The metal ball will expand
   3)   The wire will break
   4)   The metal ball will contact.

3.   Study the diagram below. The vinegar and baking soda are mixed together and a foam is formed. Liquid X then turns cloudy. What is Liquid X?

vinegar
and baking powder

X
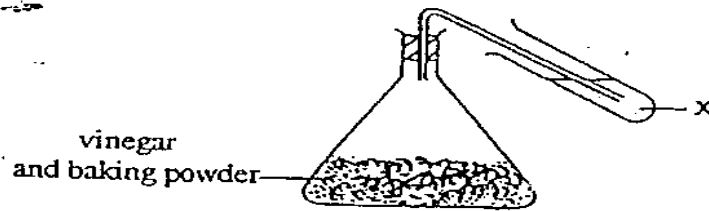
1)   water
2)   limewater
3)   alcohol
4)   sugar solution

4.   15g of sugar in each of the three containers containing 100ml of water.

water at 28°C

water at 28°C

water at 60 °C

coarse sugar

fine sugar

fine sugar

A   B   C
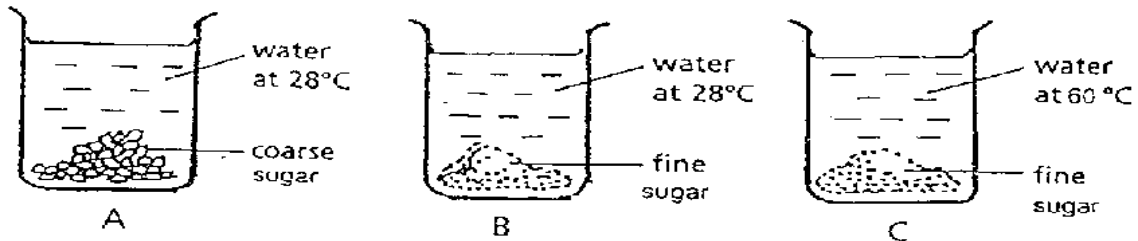
Arrange in order, from the longest to the shortest time taken for the sugar to be completely dissolved in the water.

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

5. The diagram below shows the Earth facing the sun. After half a rotation, which part(s) of the Earth will experience day?
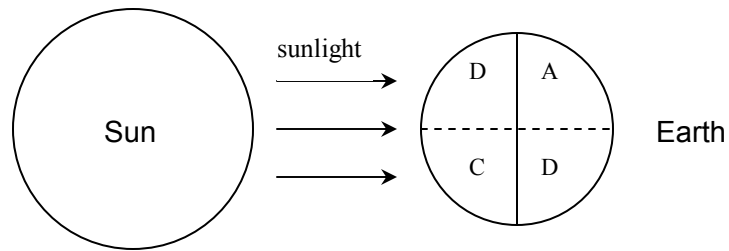
1) B only
2) C only
3) A and B only
4) C and D only

6. Which of the following contribute(s) to the increasing greenhouse effect?

A : deforestation
B : smoke from factories
C : spraying of pesticide on a farm

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

7. Which of the following changes takes the longest time?

1) Change from day to night
2) Change form spring to summer
3) A flower becomes a fruit
4) A wriggler becomes a mosquito

8. Which of the following activities will cause a change at a specific temperature?

    1) Revolution of the earth
    2) Hatching form a chicken egg in an incubator
    3) Evaporation of water from the sea
    4) Germination of seeds

Based on the chart below, answer Question 9 and 10.
The chart records the weather at 3p.m. on four consecutive days.

| DATE	14 MAY	15 MAY	16 MAY	17 MAY
Clouds (colour)	dark grey	grey	dark grey	white
Wind	breeze	breeze	strong wind	Strong wind
Temperature	29°C	30°C	?	32°C

9. Which day was most suitable\le for sailing?

    1) 14 May
    2) 15 May
    3) 16 May
    4) 17 May

10. The temperature on 16 May is most likely to be _____ °C.
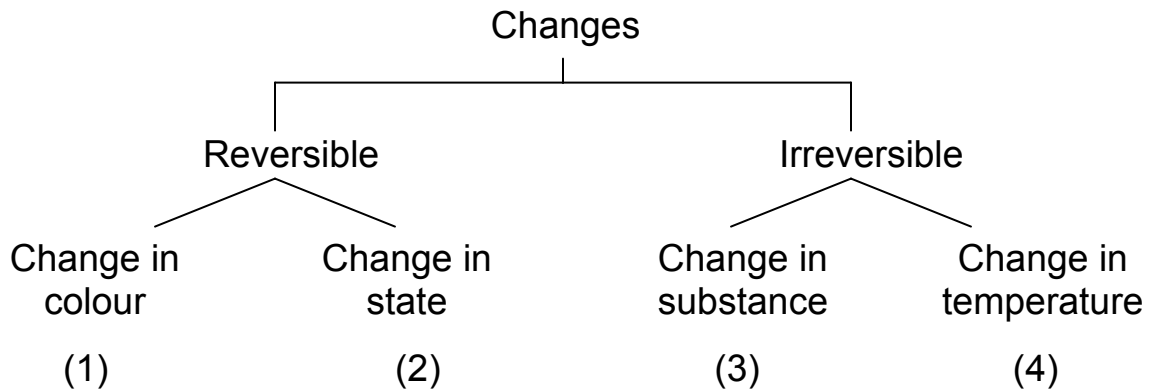
    1) 27
    2) 29
    3) 31
    4) 34

11. As shown in the diagram below, a wet shirt was hung up to dry on a bamboo pole. After an hour, the shirt was dry for the area marked X because the _____.

bamboo pole

wet shirt

X
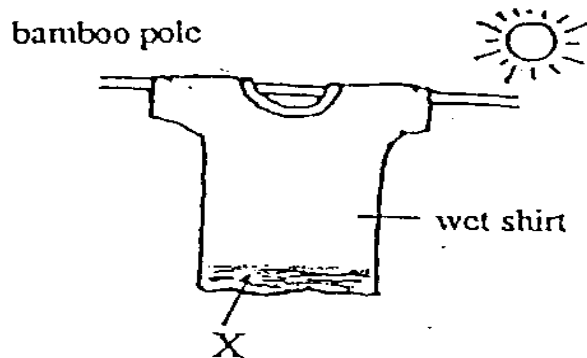
1) shirt was thinner at the other parts
2) other parts of the shirt were more exposed to the sun
3) force of gravity pulls the water in the shirt down
4) shirt was heavier at the area marked X

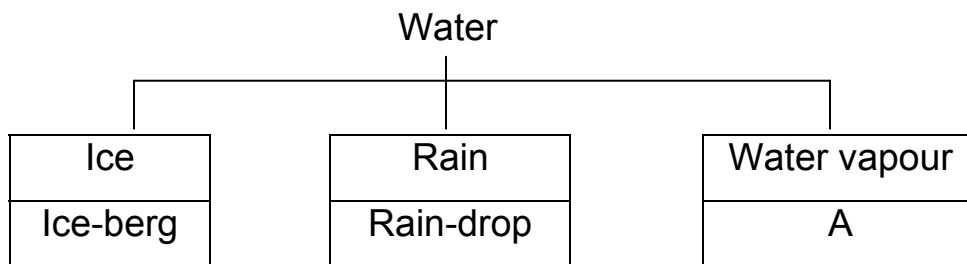12. Which of the following represents the change that occurs when bread turns mouldy?

Changes

Reversible

Irreversible

Change in colour

Change in state

Change in substance

Change in temperature

(1)

(2)

(3)

(4)

13. Ali filled a bottle with water. He placed it in a freezer. The volume of water _____ when it was frozen.

    1) increased
    2) decreased
    3) remained constant
    4) increased and then decreased

14. The table below shows some changes that take place around us and the results of those changes. Which of the following shows the result correctly?

	Change	Result
1)	The revolution of the Earth	Day and night
2)	No rain for a month	The low tide
3)	The cutting down of trees in a forest	Death of some animals
4)	The evaporation of some water from a lake	Rise in water level

15.

Water

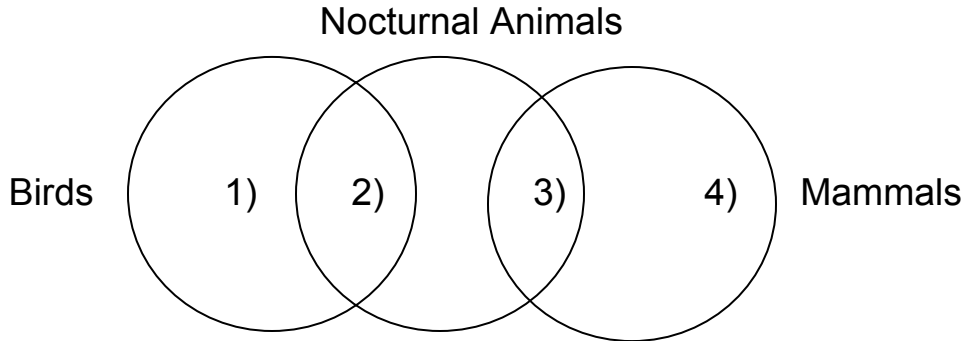| Ice	Rain	Water vapour
Ice-berg	Rain-drop	A

Which of the following can be placed in Box A?

    1) dew
    2) snow
    3) steam
    4) mist

16. Study the Venn Diagram below. Which of the following numbers represents the bat?

Nocturnal Animals

Birds 1) 2) 3) 4) Mammals

17. Shown below is information on the weather for four days.

WEATHER 15 MAY

Showers over several areas in the afternoon.
TEMP (^{o}C) up to 6 a.m. Tomorrow: 31 max, 24 min.
SUNSET today : 7.16 p.m
SUNRISE tomorrow: 7.10 a.m

WEATHER 16 MAY

Showers over several areas in the afternoon.
TEMP (^{o}C) up to 6 a.m. Tomorrow: 30 max, 24 min.
SUNSET today : 7.16 p.m
SUNRISE tomorrow: 7.15 a.m

WEATHER 17 MAY

Showers over several areas in the afternoon.
TEMP (^{o}C) up to 6 a.m. Tomorrow: 30 max, 20 min.
SUNSET today : 7.13 p.m
SUNRISE tomorrow: 7.13 a.m

WEATHER 18 MAY

Showers over several areas in the afternoon.
TEMP (^{o}C) up to 6 a.m. Tomorrow: 31 max, 24 min.
SUNSET today : 7.17 p.m
SUNRISE tomorrow: 7.14 a.m

What time did the sun rise on 17 May?

1) 7.10a.m.
2) 7.13a.m.
3) 7.14a.m.
4) 7.15a.m.

18.   Study the classification table below.

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                    ┌─────────────────────────┐
                    │ Changes during Night-time│
                    └─────────────────────────┘
                                 │
                 ┌───────────────┴───────────────┐
            ┌─────────┐                      ┌─────────┐
            │ Plants  │                      │ Animals │
            └─────────┘                      └─────────┘
                 │                                │
          ┌──────┴──────┐                  ┌──────┴──────┐
    ┌──────────┐  ┌──────────┐      ┌──────────┐  ┌──────────┐
    │ Rain Tree│  │Water Lily│      │   Owls   │  │  Crows   │
    │  Leaves  │  │ Flowers  │      └──────────┘  └──────────┘
    └──────────┘  └──────────┘            │             │
         │             │             ┌─────────┐  ┌─────────┐
    ┌─────────┐  ┌─────────┐         │         │  │         │
    │         │  │         │         └─────────┘  └─────────┘
    └─────────┘  └─────────┘
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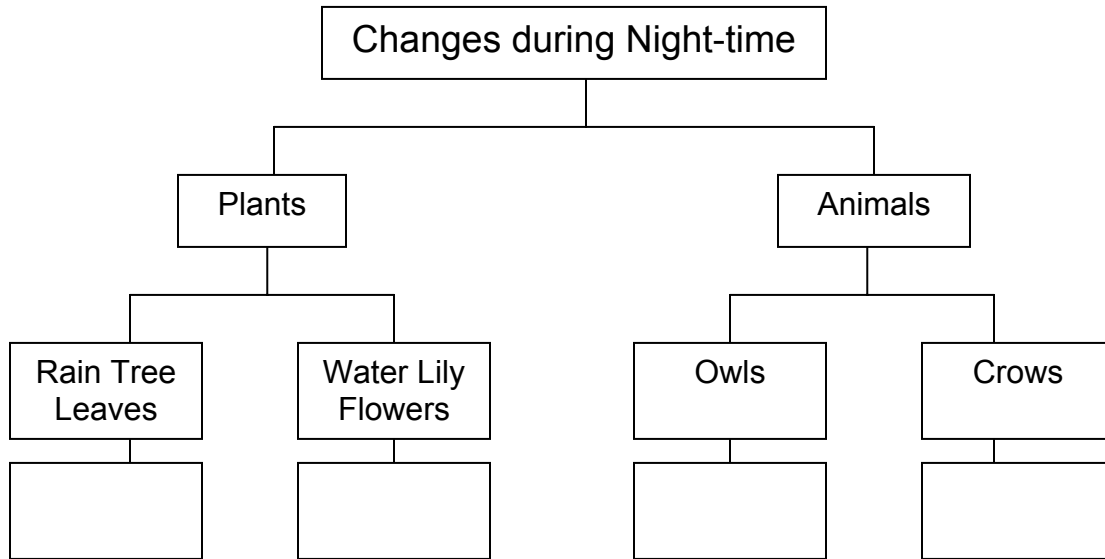
Which of the following is correct?

	Rain Tree Leaves	Water Lily Flowers	Owls	Crows
1)	open	bloom	hunt	sleep
2)	open	close	sleep	active
3)	close	bloom	sleep	active
4)	close	close	Hunt	sleep

Section B
Answer the following question in the box provided. (14 marks)

19. The letters of the alphabet represent changes which are reversible or irreversible.
    Classify them in the table below correctly.

    A: melting of butter
    B: burning of rubbish
    C: rotting of a banana
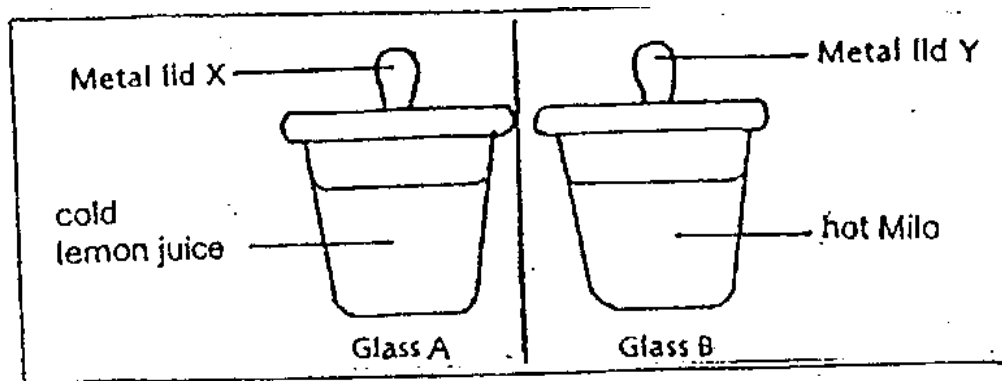   D: stretching of a rubber band

Reversible	Irreversible

20. Yew Mun heated a kettle of water for 15 minutes and recorded his observations in the table below.

Time (min)	Start	3	6	9	12	15
Temp. of water (°C)	26	45	65	85	100	100

    a) How long did the water take to boil?

    _____

    b) What would happen to the temperature of water if Yew Mun continue to boil for another 3 minutes?

    _____

21.

Mary left a glass of ice-cold lemon juice and a glass of hot Milo on a table. Then she covered them with metal lids as shown in the diagram above. A few minutes later, _____ were found on the metal lids. This was because _____ had taken place. Water vapour from the _____ condensed on the lower surface of Metal Lid Y and water vapour from the _____ condensed on the upper surface of Metal Lid X. In Glass B, Metal Lid Y _____ heat while the hot Milo _____ heat.

22. State two ways in which Man loses water to his surroundings

a) _____

b) _____

23. The following graph shows the amount of rainfall over a period of 6 months in a certain place.
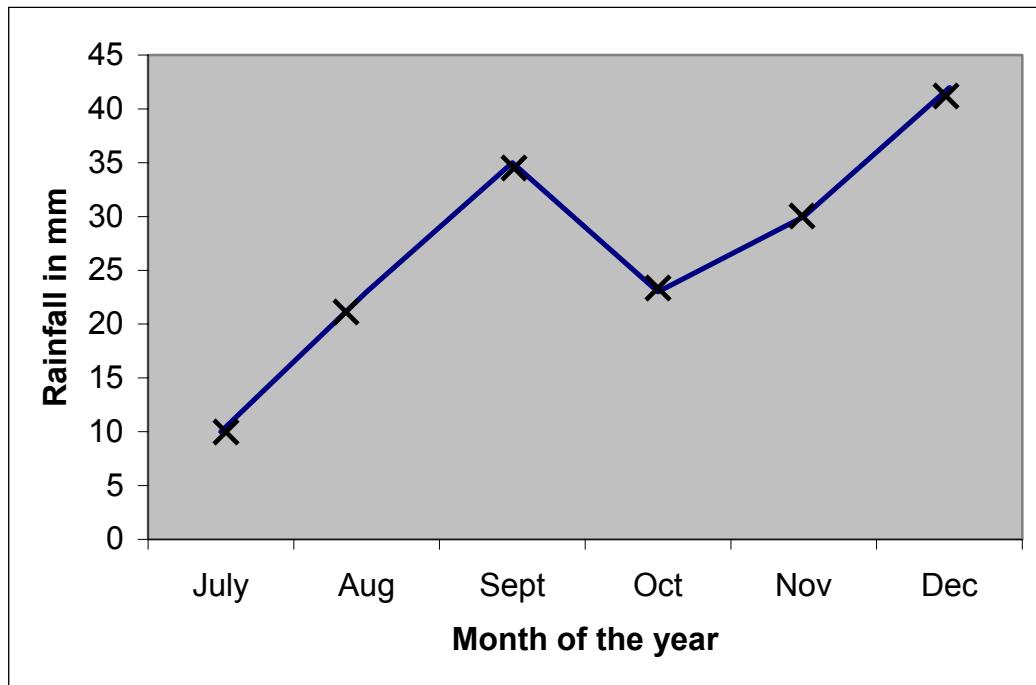
Put a tick (√) in the appropriate column against each of the statements below.

	True	False	Not possible to tell
a) November is the wettest month.			
b) The hottest day is in July.			
c) It rained every day in the month of December.			
d) There is as much rain in August as in October.			

24.
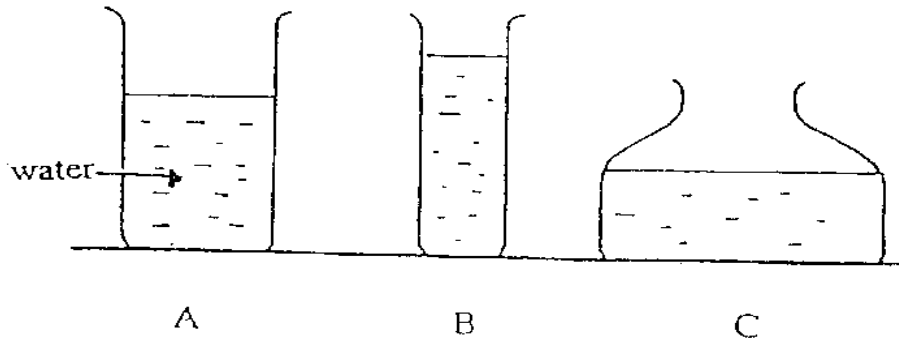
Ali poured an equal volume of water into three containers, A, B and C as shown in the diagram above. He then left them on the table. A few hours later, he checked the volume of water that was left in the containers. What was Ali trying to find out?

_____

_____

25.   Table 1 shows the height and the ideal weight of children.

Height in cm	Weight in kg	
	Boys	Girls
148	34.8 – 42.6	36.0 – 44.0
150	36.4 – 44.4	37.6 – 46.0
152	37.5 – 45.9	39.2 – 47.9
154	39.2 – 47.9	40.7 – 49.7
156	40.4 – 49.4	42.2 – 57.6

Table 1

Table 2 shows the actual height and weight of the six children.

Names of Pupils	Sex	Height (cm)	Weight (kg)	Tick (√) here
Derrick	M	148	43.2	
Hwee Leng	F	152	44.9	
Lili	F	150	36.7	
Edmund	M	154	39.9	
Christine	F	156	48.7	
Chee Guan	M	148	41.9	

Study the two tables carefully and place a tick (√) against the name of those children who do not have an ideal weight for their height.