MAHA BODHI SCHOOL

2021 SCIENCE REVIEW 2

PRIMARY FIVE

Name : _____( ) Date: 26 August 2021

Class : Primary 5 _____

Duration : 50 min

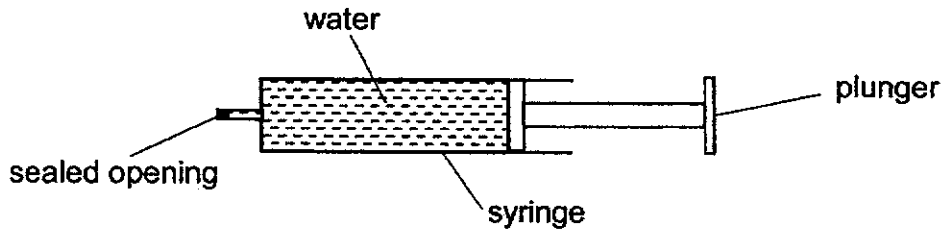
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Section A : [8 x 2 marks = 16 marks]

For each question from 1 to 8, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). **Write your answer in the bracket provided.**

1. A syringe was filled with water as shown in the diagram below. The opening of the syringe was sealed so that no water would spill out.



Which of the following explains why the plunger could not be pushed in?

(1) Water has mass.

(2) Water can be compressed.

(3) Water has a definite volume.

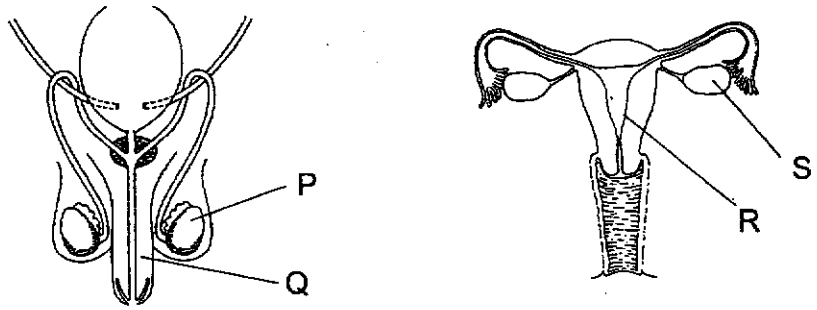
(4) Water has no definite shape. ( )

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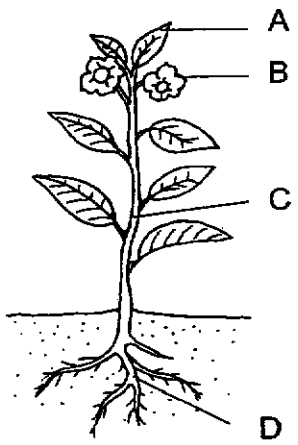
2. The diagram shows the human reproductive system



In which two parts are the reproductive cells produced?

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

3. The diagram below shows a plant.



Based on the diagram, at which part(s) of the plant can water-carrying tubes be found?

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

Marks : / 4

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4. Which of the following correctly shows the parts of the human respiratory system and circulatory system?

	Respiratory system	Circulatory system
(1)	nose, windpipe and lungs	heart, blood, and blood vessels
(2)	nose, gullet and lungs	nose, lungs and heart
(3)	mouth, gullet and stomach	nose, heart and blood vessels
(4)	mouth, nose, lungs and heart	lungs, heart, blood

( )

5. Max wants to find out how temperature of water affects the rate of evaporation.

Set-up	Exposed surface area (cm^2)	Amount of water at the start of experiment (ml)	Temperature of water (°C)
W	40	150	27
X	40	200	27
Y	40	150	35
Z	90	200	40

Which two set-ups should he use for his experiment?

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

Marks : / 4

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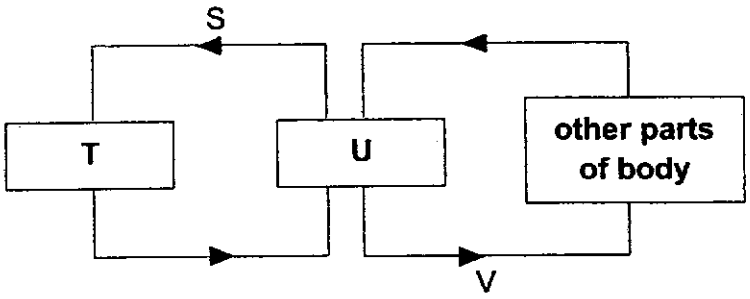
6. Four identical flowers, J, K, L and M had parts removed as shown in the table below. Insects were observed visiting all the four flowers.

Flower	Petals	Anther	Stigma
J	removed	present	present
K	present	removed	removed
L	removed	removed	present
M	present	present	removed

Which two flowers would likely turn into a fruit?

(1) J and L
(2) J and M
(3) K and L
(4) K and M ( )

7 The diagram below shows the direction of blood flowing in a human body.



Which of the following correctly shows what S, T, U and V represent in the diagram above?

	Blood rich in oxygen	Blood rich in carbon dioxide	Heart	Lungs
(1)	V	T	U	S
(2)	S	V	T	U
(3)	V	S	U	T
(4)	U	V	S	T

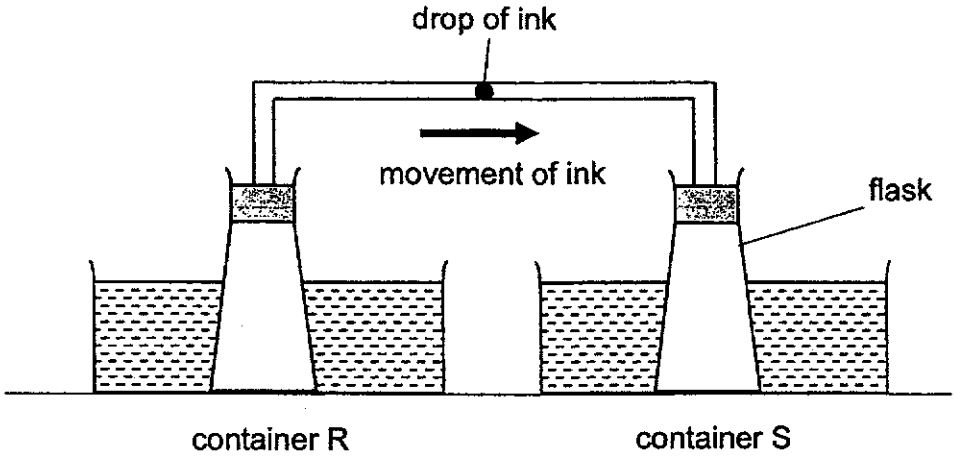
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8. Leslie put a drop of ink in the middle of the glass tube connecting two identical flasks. Both flasks were then immersed into containers R and S which contained the same amount of water at different temperatures. The experiment was conducted in the classroom.



After some time, the drop of ink moved towards container S.
Which one of the following shows the possible temperature of water in containers R and S?

	Temperature of water in containers (°C)	
	R	**S**
(1)	5	5
(2)	90	90
(3)	5	90
(4)	90	5

( )

Marks : / 2

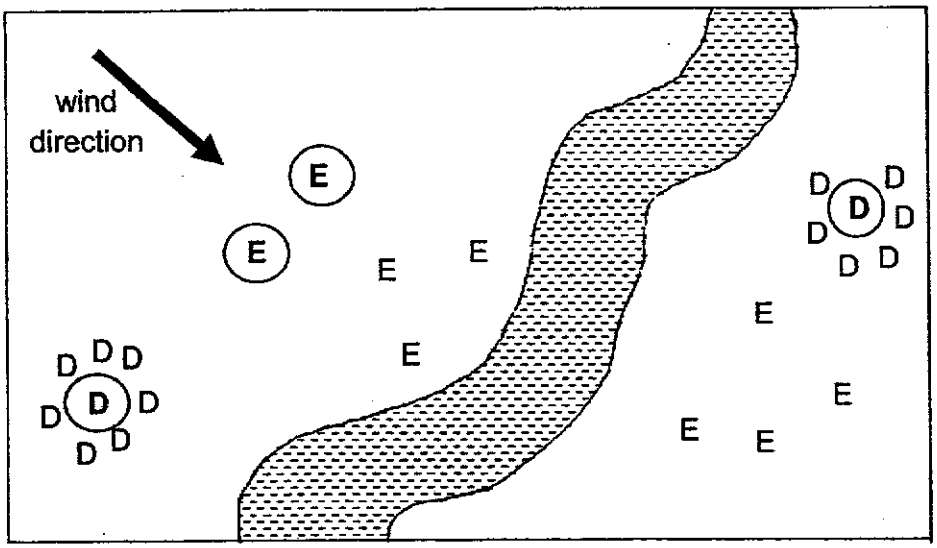
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SECTION B : [14 marks]
For questions 9 to 12, write your answers in this booklet.

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

9. Study the diagram below.



Key: (D) parent Plant D D young Plant D
(E) parent Plant E E young Plant E

(a) Based on the diagram, state the seed dispersal methods of D and E. [2]

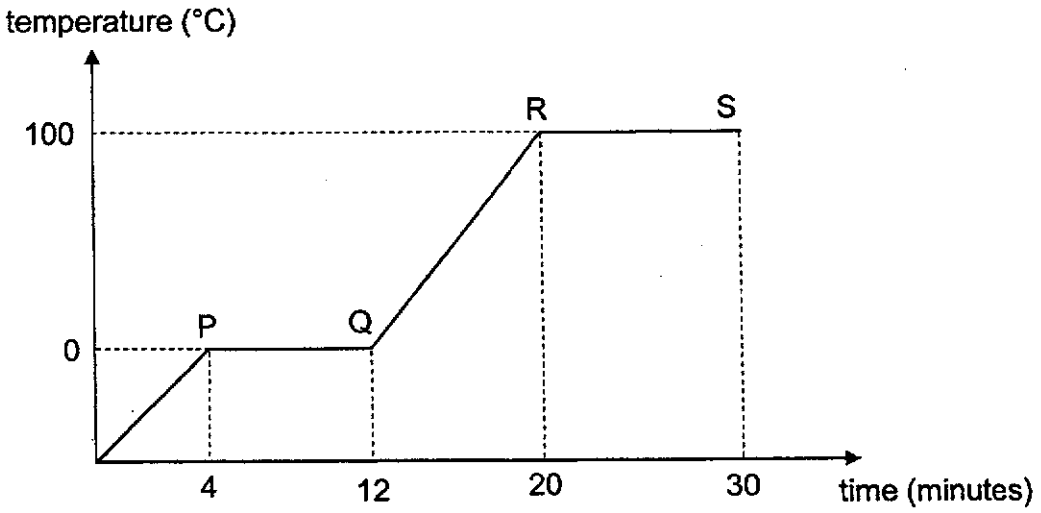
Plant	Dispersal method
D	
E	

(b) Young plant D did not grow as well as the young plant of E.
Explain why. [2]

Marks: / 4

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10. Mandy heated 300g of ice cubes in a beaker. She recorded the temperature of the ice cubes over 30 minutes as shown in the graph below.



(a) State the processes occurring at PQ and RS. [2]

(i) PQ: _____

(ii) RS: _____

(b) After 30 minutes, Mandy observed that the volume of water in the beaker was less than the volume of ice cubes at the start of the experiment. Explain her observation. [2]

_____

_____

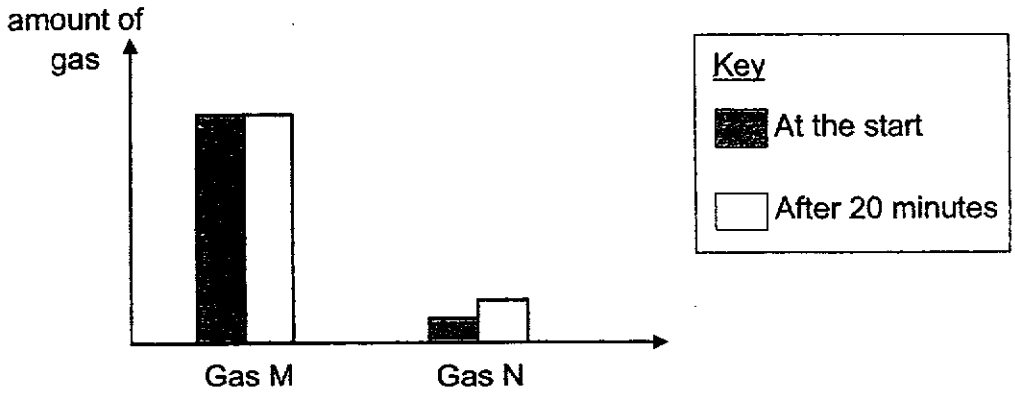
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Marks: / 4

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11. Five adults were trapped in a lift for 20 minutes before they were rescued.



The graph above shows the amount of two different type of gases in the lift at the start and after 20 minutes.

(a) What could Gas M and N possibly be? [1]

(i) Gas M: _____

(ii) Gas N: _____

(b) Explain why the breathing rate of the people trapped in the lift increased after some time. [2]

_____

_____

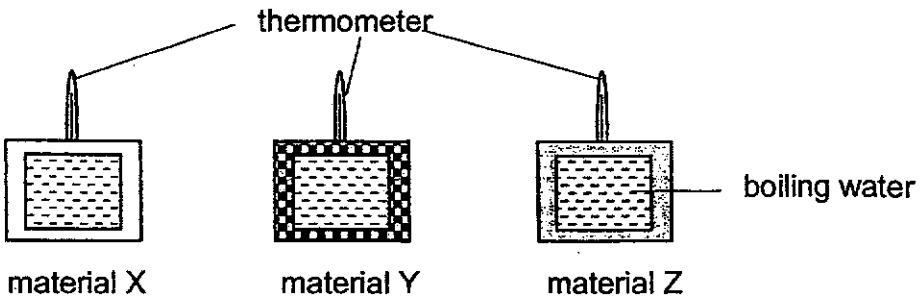
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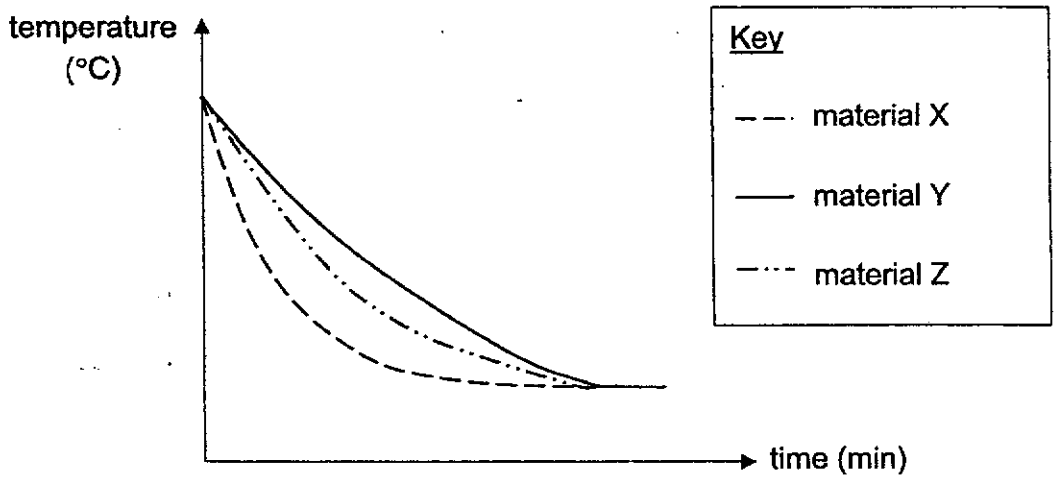
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12. Desmond had three containers made of different materials X, Y and Z. He filled all the containers with 200 ml of boiling water. He placed a thermometer in each of the container before sealing it off.



He measured and recorded the temperature of water in each container at regular intervals using a thermometer. The results of the experiment were plotted in the graph below.



(a) State how the temperatures of the water in all three containers changed over time. [1]

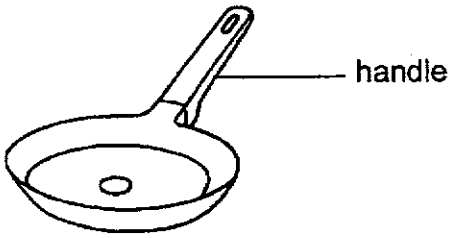
(b) Explain why the thickness of the three containers must be kept the same to ensure a fair test. [1]

Marks: / 2

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(c) Study the diagram below.



frying pan

Which material, X, Y or Z, is suitable to make the handle of a frying pan? Explain your answer. [1]

_____

_____

_____

Marks: / 1

~ END OF PAPER ~

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SCHOOL : MAHA BODHI PRIMARY SCHOOL
LEVEL : PRIMARY 5
SUBJECT : SCIENCE
TERM : 2021 REVIEW 2

SECTION A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
3	2	4	1	1	1	3	4

SECTION B

Q9a)	D: splitting / explosive E: wind
Q9b)	Young plant D is dispersed close to its parent plant and had to compete for water, sunlight, nutrients and space while young plant E is dispersed further from its parent plant and thus it does not need to compete for water, sunlight, nutrients and space.
Q10a)	i) PQ: Melting ii) RS: Boiling
Q10b)	When the ice was heated, it melted to form water. As the water continued to be heated, it boiled to form steam. The steam escaped into the surroundings.
Q11a)	i) Gas M: Nitrogen ii) Gas N: Carbon dioxide
Q11b)	The breathing rate of the people trapped in the lift increased as the oxygen in the lift decreased and thus the people's breathing rate increased to take in enough oxygen.
Q12a)	The temperatures of water decreased until all temperatures remained the same.
Q12b)	To ensure that any change in the temperature of the water in the

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	containers was only due to the type of material used and not due to the thickness of the material.
Q12c)	Material Y. Water in container made of material Y lost heat the slowest. Material Y conducts least heat from the hot pan to the hand.

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