Ai Tong School

Primary 5 Science

2024 Term 1 Review

/ 25

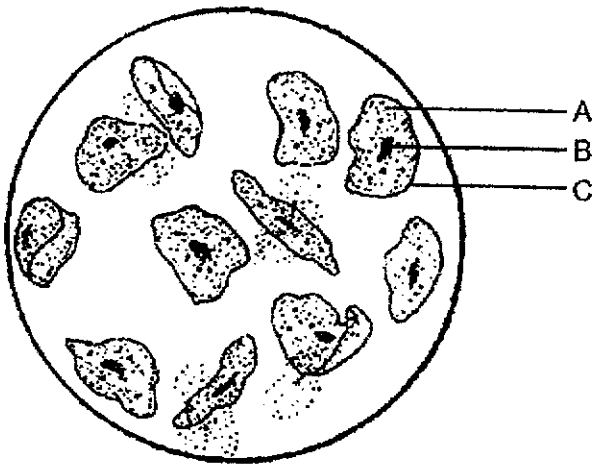
Parent's Signature: _____

Name: _____( ) Class: P5 _____ Date: _____

Section A

For each question from 1 to 5, 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. (10 marks)

1. The diagram below shows an animal cell under the microscope.

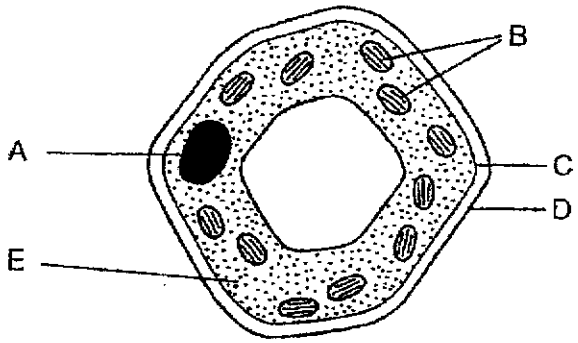


Which of the following shows the correct labels for the parts A, B and C?

	A	B	C
(1)	nucleus	cell wall	cytoplasm
(2)	chloroplast	cytoplasm	cell wall
(3)	cytoplasm	nucleus	cell membrane
(4)	cell membrane	chloroplast	nucleus

( )

2. The diagram below shows a plant cell.

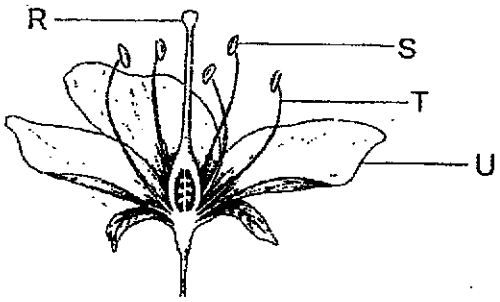


Which of the following shows the correct function of the labelled parts?

	Can make food	Contains genetic information
(1)	A	B
(2)	B	A
(3)	C	D
(4)	D	E

( )

3. The diagram below shows parts R, S, T and U of a flower.



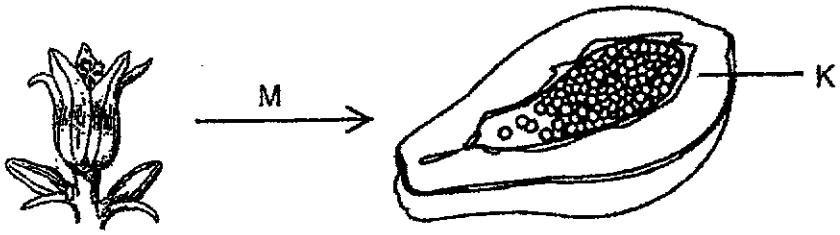
Jason removed one part of the flower. The flower did not develop into a fruit after that.

Which part of the flower did Jason remove?

(1) R
(2) S
(3) T
(4) U

( )

4. Study flower J and fruit L.



flower J fruit L

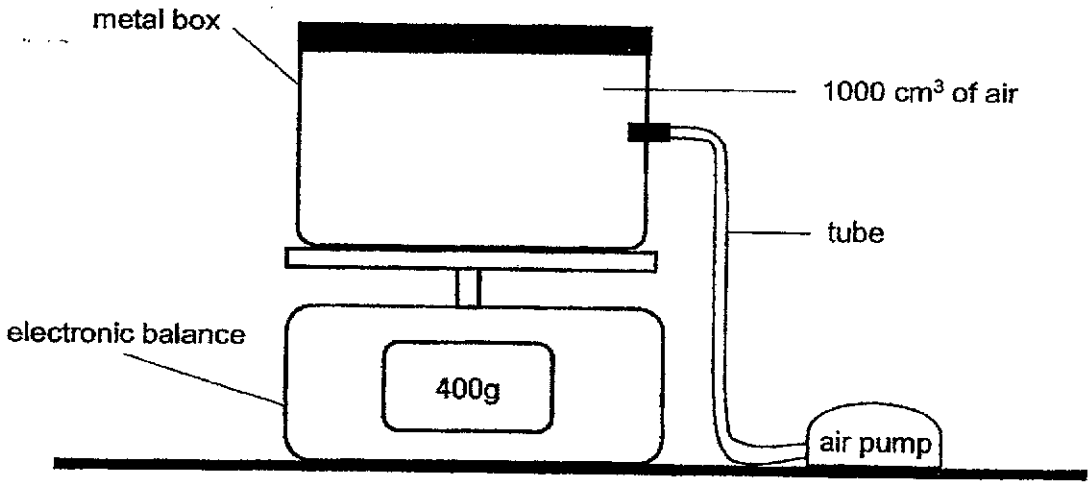
Which statement(s) is/are correct?

A K is developed from an ovary
B J has only one ovule in the ovary.
C Pollination and fertilisation took pace at M.

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

( )

5. A metal box containing a capacity of 1000 cm^3 of air was placed on an electronic balance. As shown in the diagram below, it is connected to an air pump by a tube.



An additional 1000 cm^3 of air was pumped into the metal box.

Which of the following states the final volume of air in the metal box and the reading on the electronic balance?

	Volume of air in the metal box (cm^3)	**Reading on the electronic balance (g)**
(1)	1000	More than 400
(2)	1000	400
(3)	2000	More than 400
(4)	2000	400

( )

10

Section B

For questions 6 to 9, write your answers in this booklet.

The number of marks available is shown in brackets [ ] at the end of each question or part question. (15 marks)

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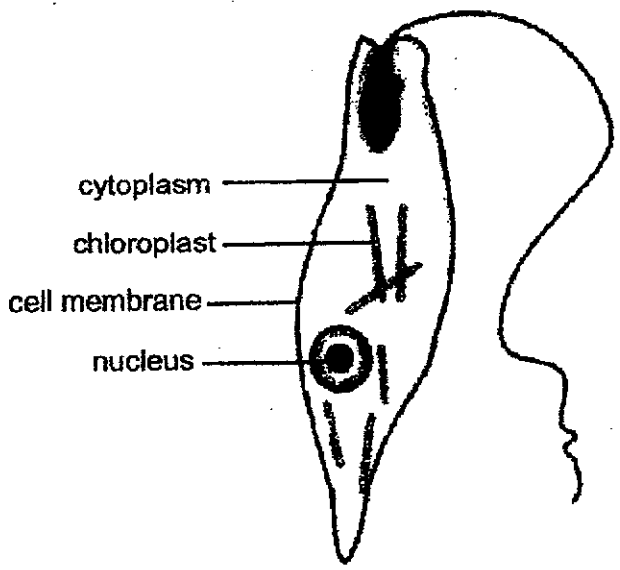
6. The diagram shows a microorganism observed under a microscope.



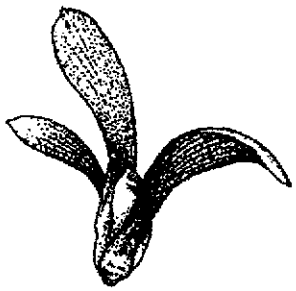
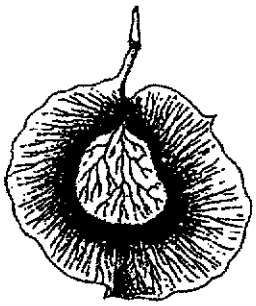
(a) Name the part(s) of the cell that is also found in animal cell. [1]

(b) Give a reason why this cell cannot be classified as a plant cell. [1]

(c) It was observed that the microorganism could make its own food. Explain why it is able to do so. [2]

4

7 Observe the characteristics of the fruits and seeds carefully.

Shorea	Pong pong	Angsana
		

(a) Which one of the above fruits and seed is dispersed differently from the rest? [1]

_____

(b) Using the characteristic of the fruits and seeds above, explain your answer in **(a)** [2]

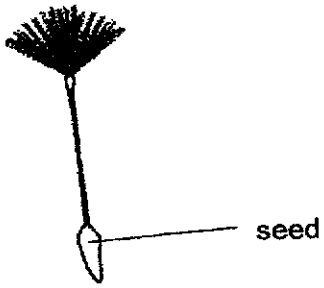
_____

_____

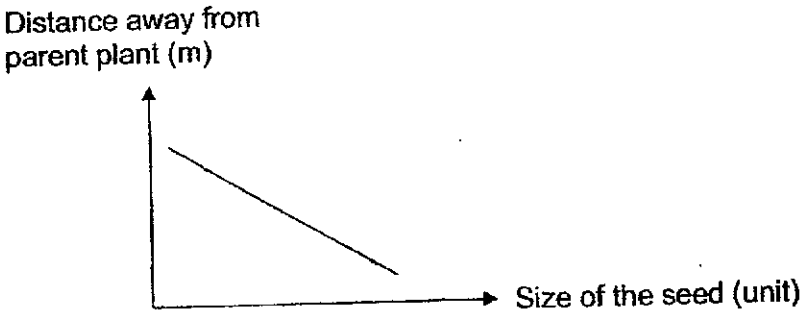
_____

3

8 Plant H has flowers that develop into fruits with seeds as shown below.



Melissa investigated the relationship between the size of the seed and the distance the seed was dispersed away from the parent plant. She plotted a graph with the results of her investigation as shown below.



(a) State the changed variable in Melissa's investigation. [1]

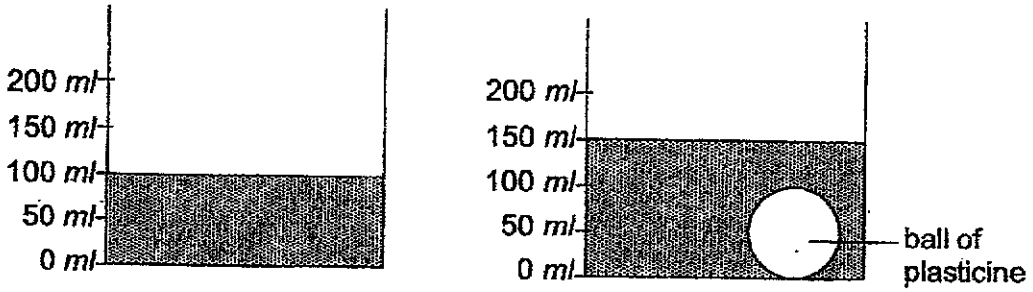
(b) Based on the graph above, how does the size of the seed affect the distance the seed was dispersed away from the parent plant? [1]

(c) State the conditions required by a seed to germinate. [1]

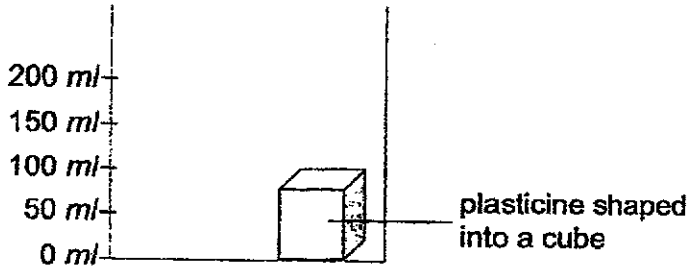
(d) Give a reason why fruits and seeds need to be dispersed. [1]

4

9 John conducted an experiment as shown below. He filled up a beaker with 100 ml of water. Then he placed a ball of plasticine into the beaker and the water level rose as shown in the diagram below.



John then took out the ball of plasticine and shaped it into a cube as shown below. He placed the plasticine back into the 100ml water.



(a) State the new water level. [1]

_____ *ml*

(b) Explain your answer in **(a)**. [2]

_____

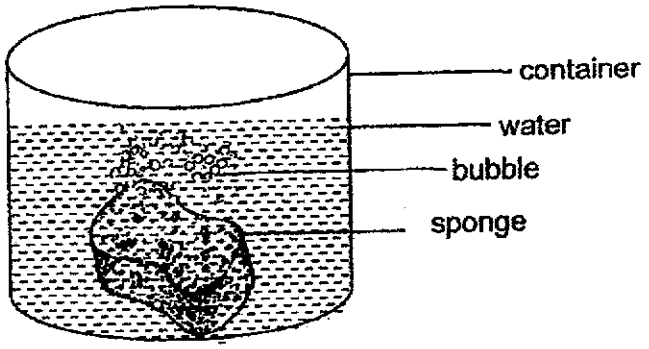
_____

_____

_____

3

In the next experiment, John placed a sponge into a container of water as shown in the diagram below. The sponge contains holes with air spaces.



(c) He observed that bubbles were coming out of the sponge.
Explain John's observation. [1]

1

ANSWER KEY

YEAR : 2024
LEVEL : PRIMARY 5
SCHOOL : AI TONG
SUBJECT : SCIENCE
TERM : TERM REVIEW 1

SECTION A

Q1	3	Q2	2	Q3	1	Q4	3	Q5	1

SECTION B

Q6	a) Nucleus , chloroplast , cytoplasm b) It does not have a cell wall c) It has chloroplast. Chloroplast which traps sunlight to make food for the organism.
Q7	a) Pong Pong b) Pong pong has a fibrous husk whereas angsana and shorea have wing like structure.
Q8	a) The size of the seed b) As the size of the seed increases the distance the seed was dispersed away from the parent plant also decrease. c) Water , oxygen and warmth d) Preventing over crowding , reducing competition for space , sunlight and mineral salt.
Q9	a) 150ml b) No plasticine was removed or added to the cube and plasticine has definite volume. c) The gaps in the sponge are occupied by the air. The water takes up the space.

END