Instructions :

1. Each question carries a different score, as indicated at the end of the question.

2. Students must select only the one best answer for each question.

1. Study chart below.

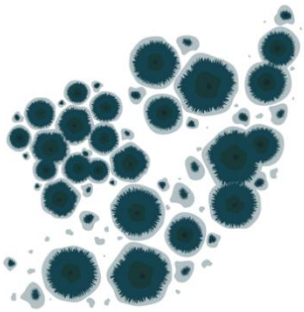
Group P	Group T
  	  

Which criterias are used for classification? (2.5 marks)

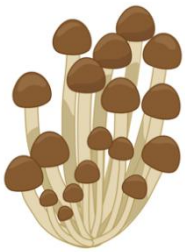
	Group P	Group T
1.	Able to move freely	Unable to move freely.
2.	Need air to breathe	Air is not necessary for breathing
3.	Able to reproduce	Unable to reproduce
4.	Can respond to stimuli	Unable to respond to stimuli

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2. Study the table of living organisms below.

Group A	Group B
 	 

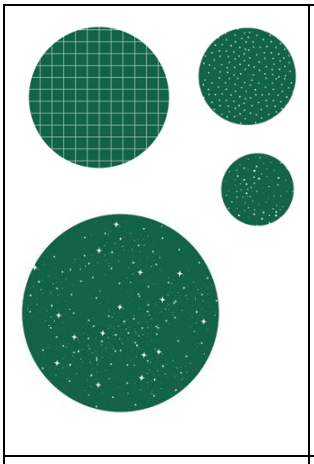
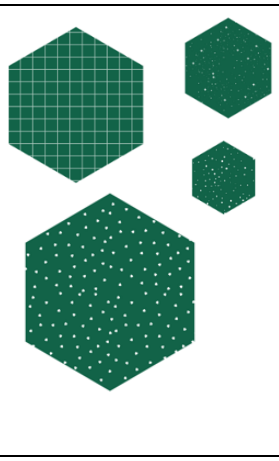
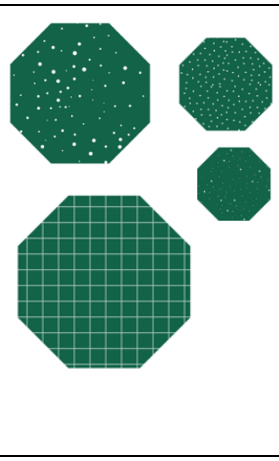
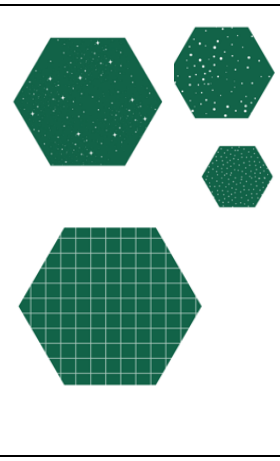
Based on the classification criteria of the two groups above, should the organisms be classified into group A or group B, respectively? (2.5 marks)

1. groups A, B, B and A
2. groups B, B, B and A
3. groups A, B, A and A
4. groups B, A, B and A

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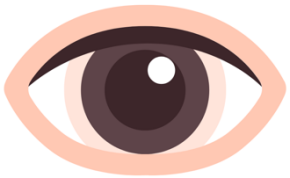
3. The diagram below shows four groups of objects.

			
Group 1	**Group 2**	**Group 3**	**Group 4**

Which classification criteria is most appropriate? (2.5 marks)

1. Color
2. Shape
3. Pattern
4. Size

4. The eyes help us see the world around us. What is the function of the eyes? (2.5 marks)

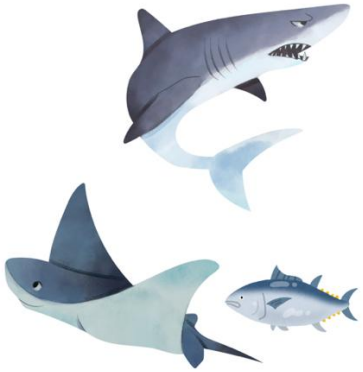


A. To detect light and colors
B. To send visual information to the brain
C. To help us hear sounds
D. To control body balance

1. A and C
2. B and D
3. A and B
4. A, B and D

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5. Study the classification chart below for four groups of animals.

Group A	Group B
	
Group C	**Group D**
	

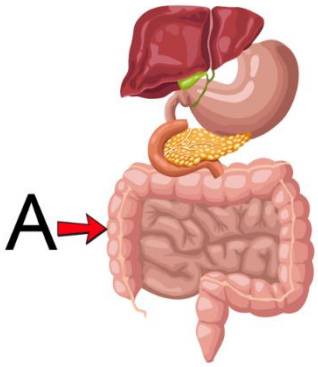
Animal X has feathers, lays eggs, and can fly. In which group would you place it?

(2.5 marks)

1. Group A
2. Group B
3. Group C
4. Group D

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6. The diagram below shows on organ in the human digestive system.



What is the function of organ A? (2.5 marks)

1. Absorb water and minerals from undigested material.
2. Mainly digests and absorbs nutrients.
3. Eliminate excess body fat
4. removes germs or foreign substances from the body.

7. Our Earth receives most of its energy from the Sun. How is this energy essential for life on Earth? (2.5 marks)

1. It causes changes in the moon Phase.
2. It controls Earth's orbit.
3. It helps plants perform photosynthesis
4. It causes tides.

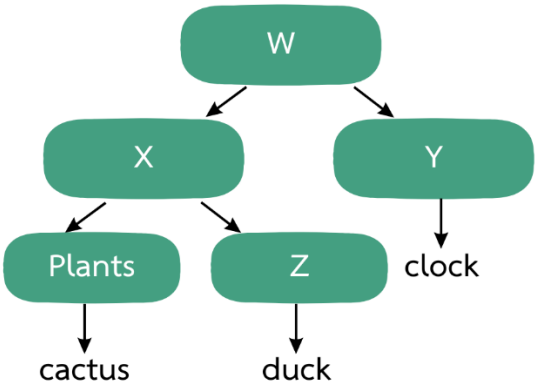
8. Which of the following are natural sources of sound? (2.5 marks)

A. Thunder
B. A car horn
C. A bird chirping
D. A ringing phone

1. A and B
2. A and C
3. B, C, and D
4. A, B, C, and D

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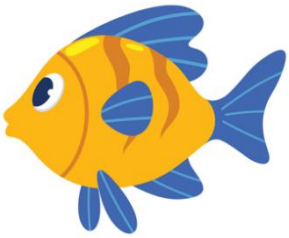
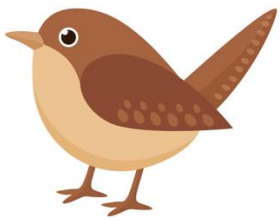
9. Study the chart below carefully.



Which of the boxes in the chart should be labeled as "Non-living"? (2.5 marks)

1. W
2. X
3. Y
4. Z

10. Which of the following animals use sound to communicate? (2.5 marks)

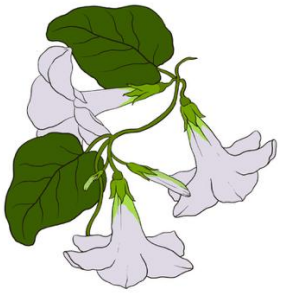
A. Dogs 	B. Fish 
C. Birds 	D. Frogs 

1. A and B
2. A and C
3. B, C and D
4. A, C and D

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11. Ken observes flowers pollinated by butterflies. He concludes that butterflies are attracted to red or yellow patterns of flowers that have a large landing platform. Based on Ken's findings, which of the flowers is probably the most favorite flower of butterflies? (3.5 marks)

1.



Purple and trumpet-shaped

2.



Yellow and tube-like

3.



Yellow sunflower

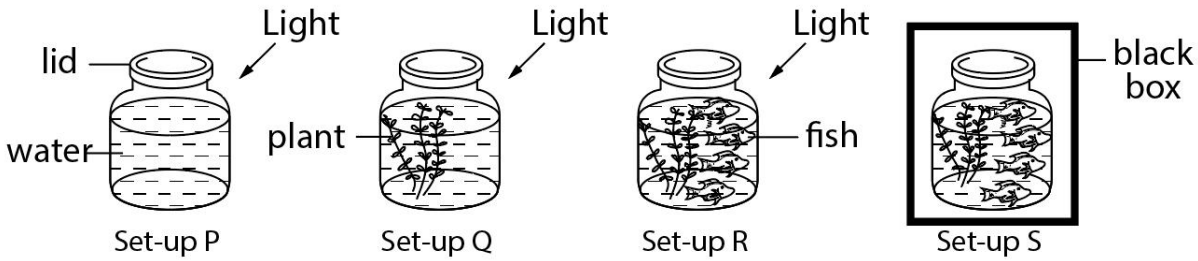
4.



Pink rose

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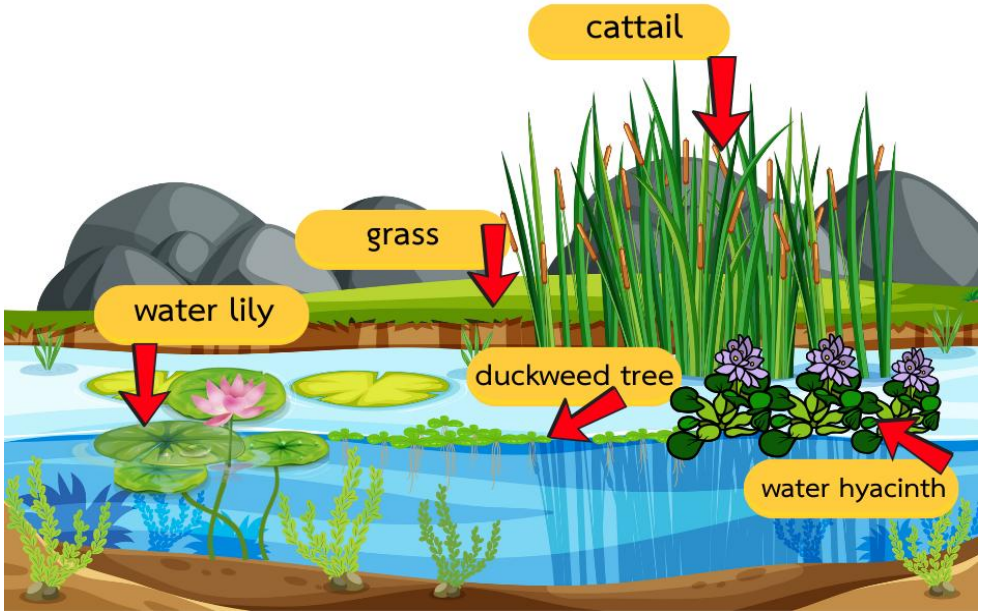
12. Christina has the following set-ups placed in a location that can receive a lot of sunlight. (3.5 marks)



Which of the two set-ups should he observe if he wants to find out the effect of light on the amount of dissolved oxygen in water?

1. Set-ups P and S
2. Set-ups R and S
3. Set-ups Q and R
4. Set-ups Q and S

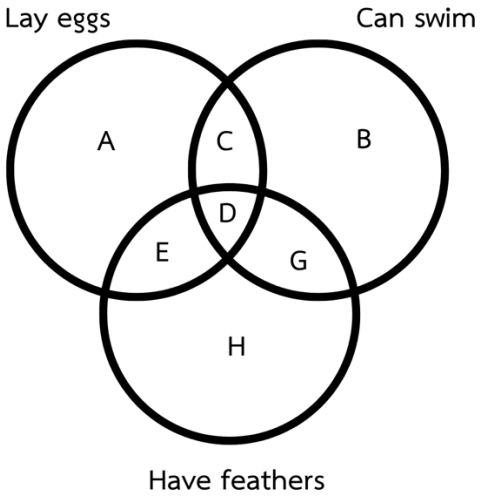
13. The overcrowding of water hyacinth on the pond would have a negative impact on the _____. (3.5 marks)



1. grass
2. cattail
3. duckweed tree
4. water lily

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14. Study the diagram below.



Which letter would represent a Penguin? (3.5 marks)

1. A
2. E
3. H
4. D

15. If the Earth stopped rotating, what would happen? (3.5 marks)

A. One side of the Earth would always face the Sun.

B. The length of a day would remain the same.

C. The temperature on one side would be extremely hot while the other side would be extremely cold.

D. The seasons would remain unchanged.

1. A and B
2. A and C
3. A, C, and D
4. A, B, C, and D

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16. Study the diagrams of a pelican and a bat below.

	
a pelican	**a bat**

Which of the following are true of both the pelican and the bat? (3.5 marks)

A. Both animals can fly.
B. Both animals are birds.
C. Both animals have feathers.
D. Both animals have two feet.

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

17. Which of the following activities are involved the use of muscles? (3.5 marks)

			
A. Sleep	**B. Dance**	**C. Read a book**	**D. Play football**

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

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18. After she got out of a swimming pool, Emma walked along a pathway laid with rubber mats to get to the bathroom.



Why are rubber mats laid along the pathway to bathrooms? (3.5 marks)

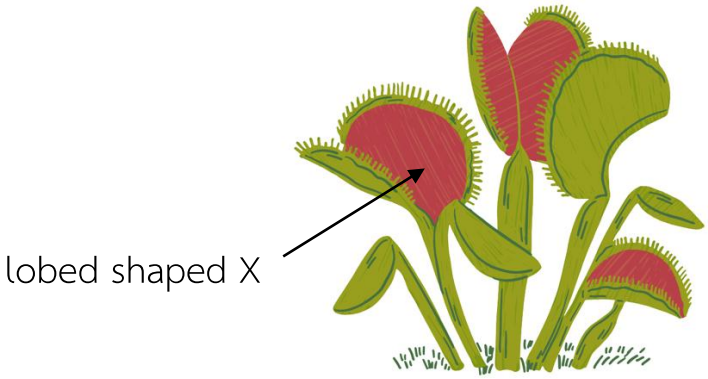
1. Rubber mats enable swimmers to find their way to the bathrooms more easily.
2. Rubber mats prevent swimmers from falling into the pool accidentally.
3. Rubber mats increase the friction between the wet floor and the soles of our feet to prevent injuries caused by wet floor surfaces.
4. Rubber mats prevent water from accumulating when swimmers get out of the swimming pool.

19. A sealed plastic bottle is floating in water. If you push it down and release it, what will happen? (3.5 marks)

1. It will stay at that depth.
2. It will sink further.
3. It will float back up.
4. It depends on the shape of the bottle.

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20. The Venus flytrap grows naturally in nutrient-poor soil. In order to obtain sufficient nutrients, it feeds on insects.

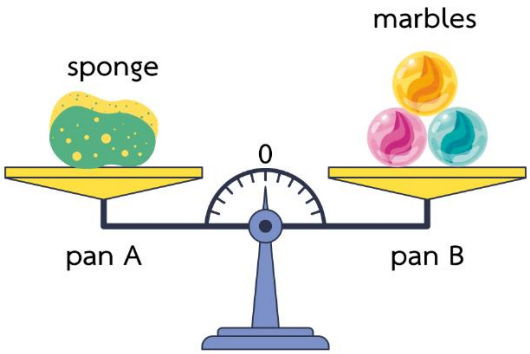


Venus flytrap

The lobed shaped X are the _____of the Venus flytrap. (3.5 marks)

1. flower
2. leaves
3. fruit
4. Stem

21. A sponge and three marbles are placed on a balance as shown in the diagram below. The needle of the balance is at the zero mark. (3.5 marks)



Which of the following statements is true?

1. The sponge and the marbles have zero mass.
2. The sponge has the mass of more than one marble.
3. The combined mass of three marbles is greater than that of the sponge.
4. When a marble is removed, Pan A will move up.

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22. Branden conducted an experiment by dropping five different stones into a container filled with water, one at a time. Then, he observed bubbles being produced and recorded the result in the table below.



A beaker containing water

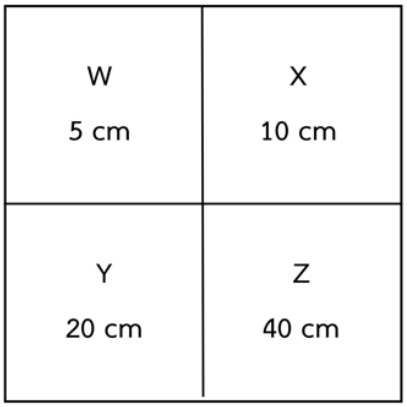
	Stone A	Stone B	Stone C	Stone D
Appearance				
Number of air bubbles	35	0	5	18

Which physical characteristic of the rock is related to the number of air bubbles produced? (4.5 marks)

1. Color
2. Weight
3. Porosity
4. Strength

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23. A field is divided into four equal quadrants. Grass of a certain height was planted in each quadrant. The diagram below shows the quadrants and the height of the grass planted in them.



The number of three different types of animals were counted in each quadrant and recorded in the table below.

Quadrant	Number of animal A	Number of animal B	Number of animal C
Quadrant W	20	30	45
Quadrant X	30	40	40
Quadrant Y	40	50	35
Quadrant Z	50	60	30

Which of the following patterns can you obtain from the data given? (4.5 marks)

A : The taller the grass, the greater the number of animal A.

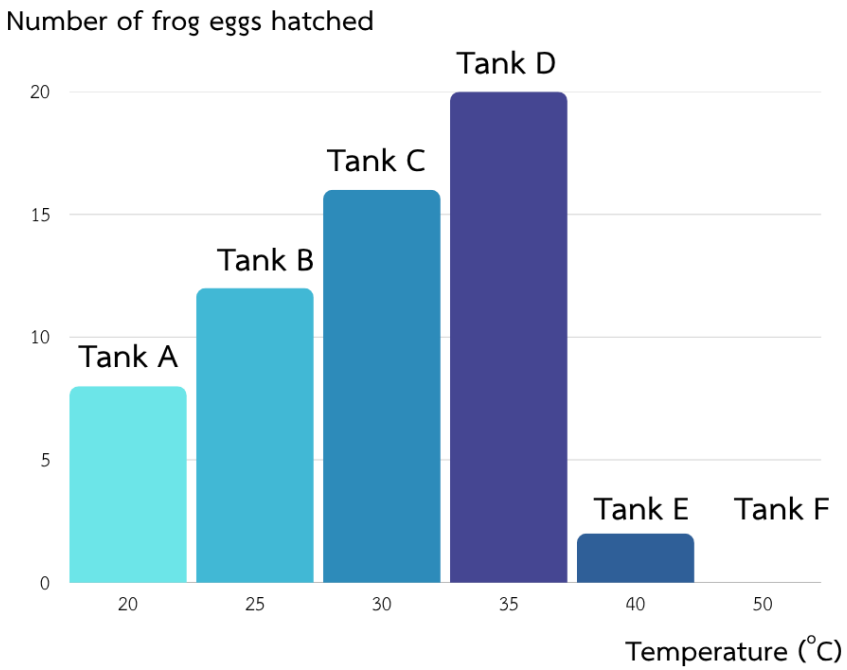
B : The taller the grass, the greater the number of animal B.

C : The taller the grass, the fewer the number of animal C.

1. A only
2. B and C only
3. A, B, and C
4. None of the patterns

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24. 50 frog eggs were placed into each of the six tanks, A, B, C, D, and E. The graph below shows what happened after seven days.



Which of the following questions can be answered by looking at the graph?

(4.5 marks)

1. How does temperature affect the number of frogs that survive?
2. How does temperature affect the number of frog eggs that hatch?
3. How does the number of frog eggs affect hatching speed?
4. How does the number of frog eggs affect the temperature of the tanks?

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25. Some fruits have wing-like or parachute-like structures to help in their dispersal. J.J. wants to find out how the number of wings of a Shorea fruit affects the time they stay in the air. He has four Shorea fruits: P, Q, R, and S. He removed some of the upper wings from the fruits– for example, P has no wings, Q has only one wing, R has two wings, and S has three wings.



He then drops the fruits from a height. The table below shows the time taken for each fruit to reach the ground.

Fruit	Time (s)
P	1.6
Q	2.4
R	3.6
S	4.9

What is the purpose of the experiment? (4.5 marks)

1. To find out how the number of wings of a Shorea fruit affects the time it stays in the air.

2. To find out if the shape of wings of a Shorea fruit affects the time it stays in the air.

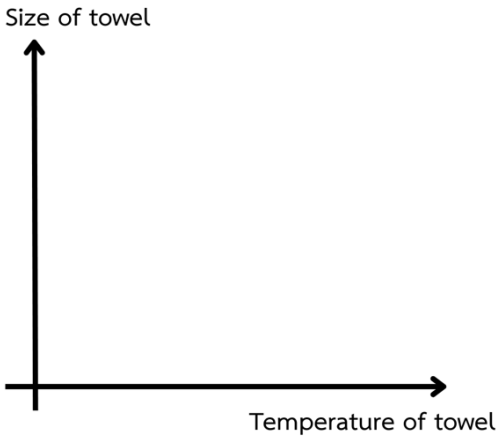
3. To find out if the color of wings of a Shorea fruit affects the time it stays in the air.

4. To find out if the weight of a Shorea fruit affects the time it stays in the air.

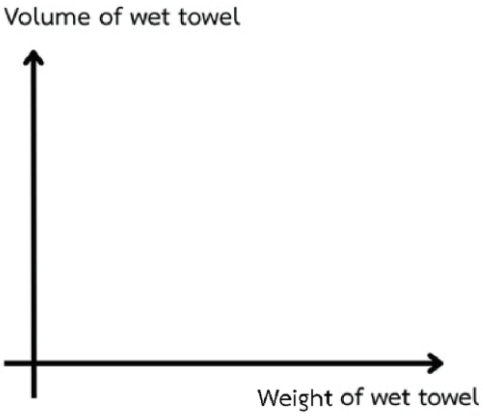
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26. Zaza did an experiment to study the effect of temperature on the rate of evaporation of water from a wet towel. Which of the following axes should she use to draw a graph to show her results? (2.5 marks)

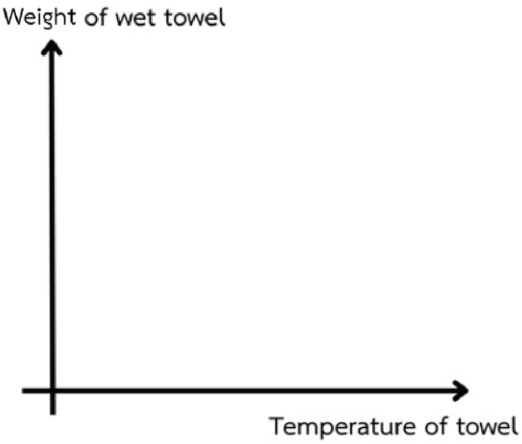
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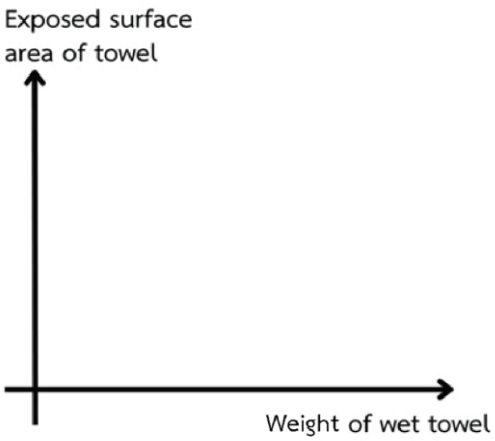
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3.

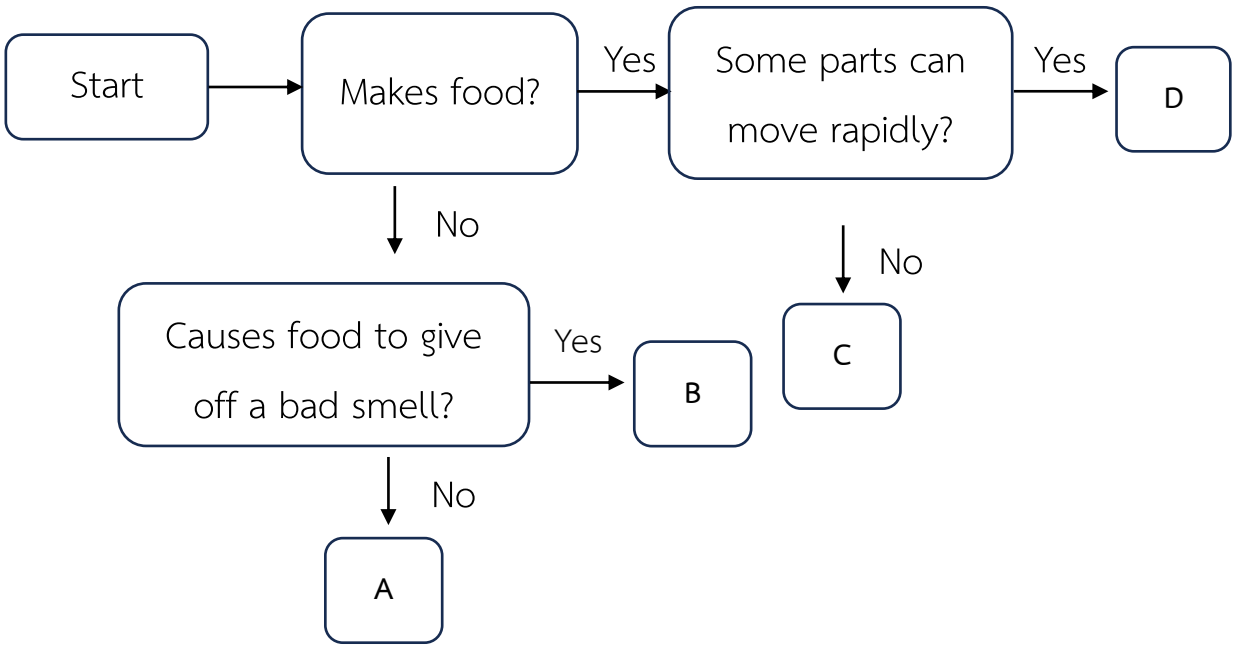


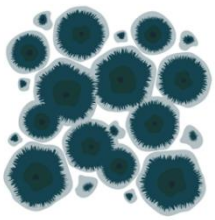
4.



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27. Study the key below.



			
Cactus	**Venus flytrap**	**Bee**	**Mold**

Which living things do letters A, B, C and D represent? (4.5 marks)

1. Mold, Venus flytrap, Bee, and Cactus
2. Bee, Mold, Cactus, and Venus flytrap
3. Cactus, Venus flytrap, Bee, and Mold
4. Mold, Bee , Cactus, and Venus flytrap

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28. Nana observed a big tree in her school garden.



Observations

- The crown is wide.
- Most of the leaves were found at the top.
- There were fewer leaves on the lower branches.

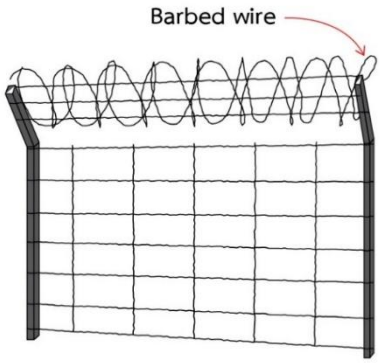
Why are the leaves mostly found at the top of the tree? (3.5 marks)

A. To catch more water when it rains
B. To shade the roots from sunlight
C. To allow the leaves to get more carbon dioxide
D. To allow more leaves to get sunlight directly
E. To allow the leaves to get more gas

Which statement is correct?

1. A and B only
2. B and D only
3. C and E only
4. D only

29. Barbed wire is used to protect property as well as to prevent farm animals from wandering.



Which of the following properties should barbed wires have? (3.5 marks)

1. Strong and hard
2. Flexible and rustproof
3. Elastic and not easily broken
4. Conductor of electricity and waterproof

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30. Alan carried out an experiment to investigate the optimal conditions needed to grow soybean seeds. The table below records the conditions he used for the different set-ups.

Set-up	Number of soybean seeds used	Type of soil used	Amount of water given each day / ml	Location of the set-up
A	5	Garden soil	200	Under the Sun
B	5	Garden soil	10	Under the Sun
C	10	Garden soil	0	In the shade
D	10	Clayey soil	200	In the shade
E	5	Clayey soil	10	Under the Sun

If Alan wanted to find out which amount of water given each day was more suitable for the growth of soybean seeds, which two set-ups should he compare? (4.5 marks)

1. A and B
2. A and C
3. B and E
4. D and E

---------- End of Questions ----------

Please check your answers before submitting the answer sheet.

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คำตอบวิชาวิทยาศาสตร์ ชั้นประถมศึกษาปีที่ 2

ข้อ	คำตอบ	ข้อ	คำตอบ
1	1	21	2
2	1	22	3
3	2	23	3
4	3	24	2
5	1	25	1
6	1	26	3
7	3	27	2
8	2	28	4
9	3	29	1
10	4	30	1
11	3		
12	2		
13	3		
14	4		
15	2		
16	3		
17	4		
18	3		
19	3		
20	2		

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