Your way to an easy A

2026 WA1 Paper

Jing Shan Primary School

Science

Primary 6

Instructions to candidates

1. **Follow all instructions carefully.**
2. **Answer all questions.**
3. **Duration: 1h 45 minutes**

Section A	**/ 60**
Section B	**/ 40**
Total	**/ 100**

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Section A: For each question from 1 to 30, four options are given. One of them is the correct answer. Make your choice and fill it in the corresponding brackets provided.

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1. Which of the following statements regarding the passing down of characteristics from parents to offspring is true?

   (1) If the parents have short hair, the child will also have short hair.
   (2) Only the sperm cell contains the information that is passed down.
   (3) One of the characteristics that can be passed down is the type of eyelids.
   (4) The offspring gets more characteristics from the mother than from the father.

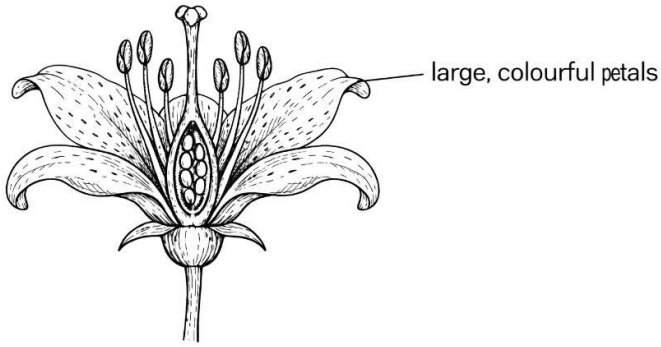
   ( )

2. Which row correctly shows where the female reproductive cells are produced in humans and flowering plants?

	Humans	Flowering plants
(1)	Ovary	Anther
(2)	Ovary	Ovules
(3)	Testes	Anther
(4)	Testes	Ovules

   ( )

3. The diagram below shows the cross section of a flower of plant K.

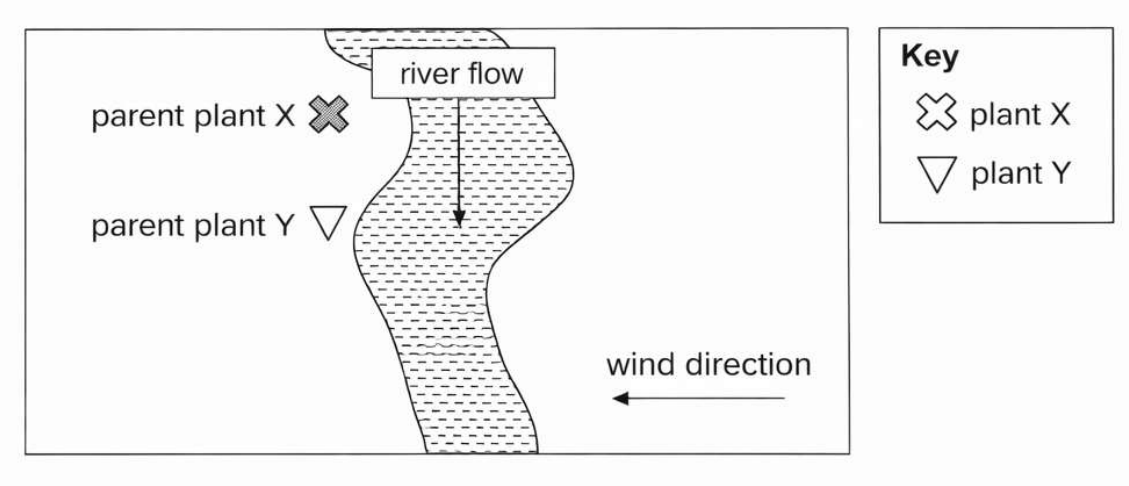


Based on the flower above, what can be concluded about plant K?

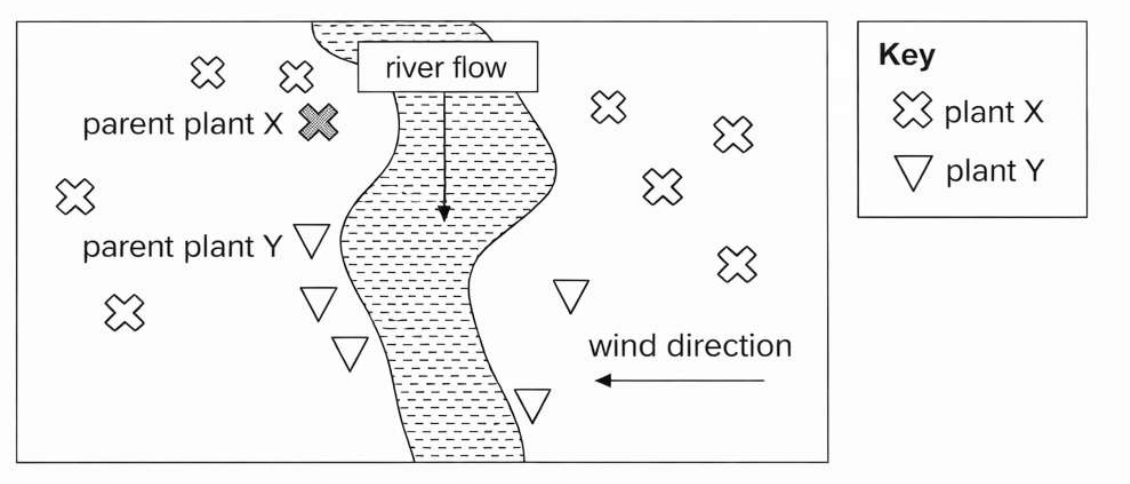
   (1) The flower of plant K is pollinated by wind.
   (2) The fruit of plant K will have multiple seeds.
   (3) The flower of plant K has more than one ovary.
   (4) The seeds of plant K are most likely to be dispersed by animals.

   ( )

4. Zainal planted two new plants, X and Y, as shown below.



After one year, he found more plants and recorded where they are found as shown below.

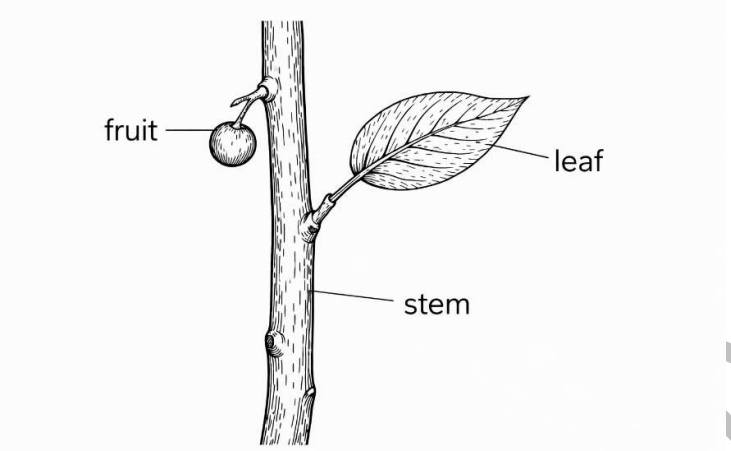


How are plants X and Y most likely to be dispersed?

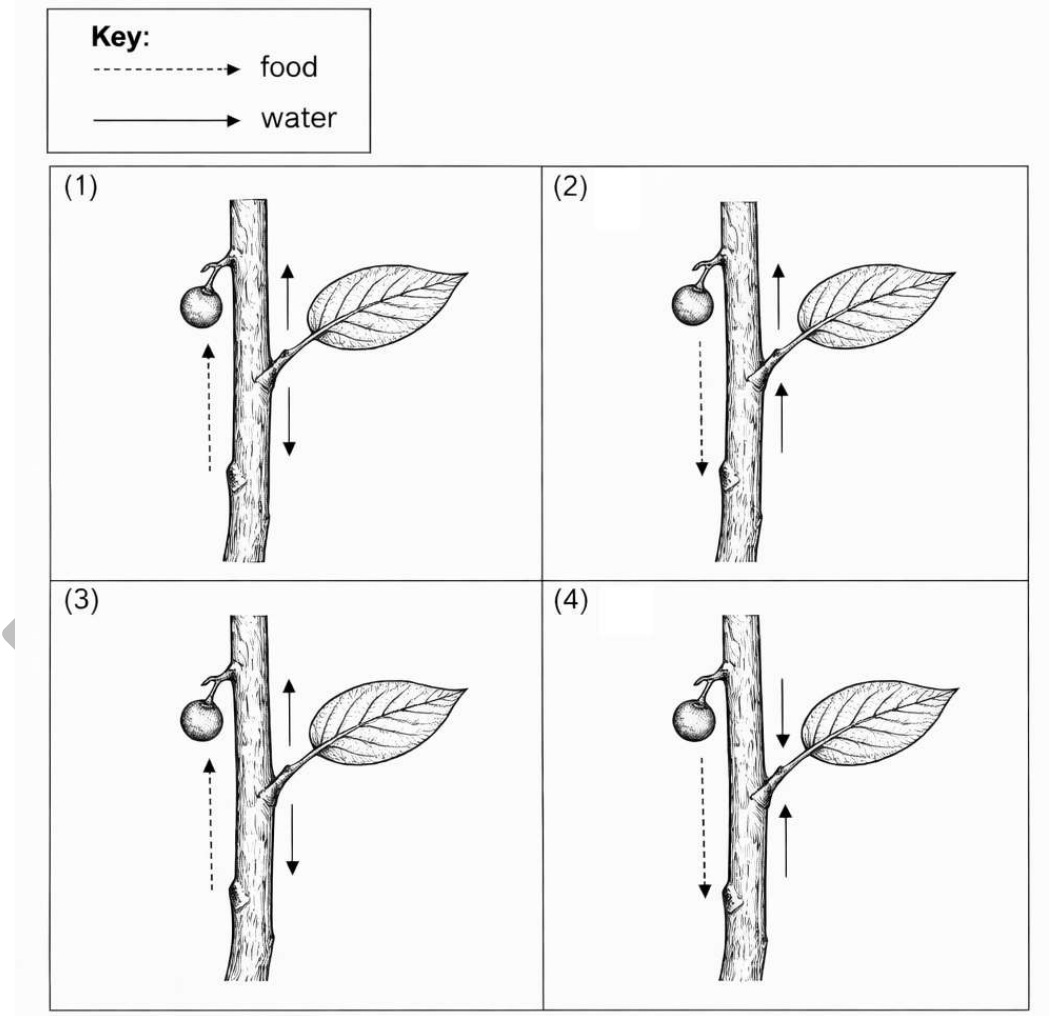
	Plant X	Plant Y
(1)	Wind	Splitting
(2)	Wind	Water
(3)	Animals	Splitting
(4)	Animals	Water

( )

5. The diagram shows part of a plant.



Which of the following correctly shows how water and food is transported along the stem?



( )

6. Which two systems work together for gaseous exchange in a human?

   (1) Circulatory and digestive
   (2) Digestive and respiratory
   (3) Muscular and respiratory
   (4) Circulatory and respiratory

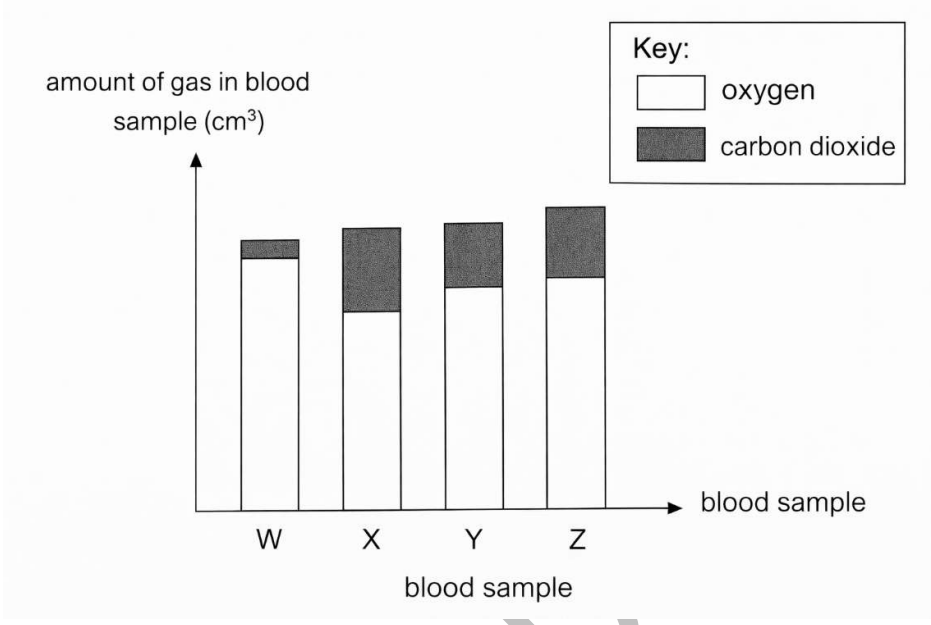
   ( )

7. Which of the following correctly describes the differences in nitrogen, oxygen, carbon dioxide and water vapour between air breathed in and air breathed out.

	Air breathed out			
	Amount of nitrogen	Amount of oxygen	Amount of carbon dioxide	Amount of water vapour
(1)	Increased	Decreased	Increased	No change
(2)	Decreased	Increased	Decreased	Decreased
(3)	No change	Decreased	Increased	Increased
(4)	No change	Increased	Decreased	Increased

   ( )

8. Four different blood samples, W, X, Y and Z, were taken from different parts of the body.



Which blood sample is most likely to show blood flowing from the heart to the lungs?

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

( )

9. Which of the following group(s) of living things use energy directly from the Sun to survive?

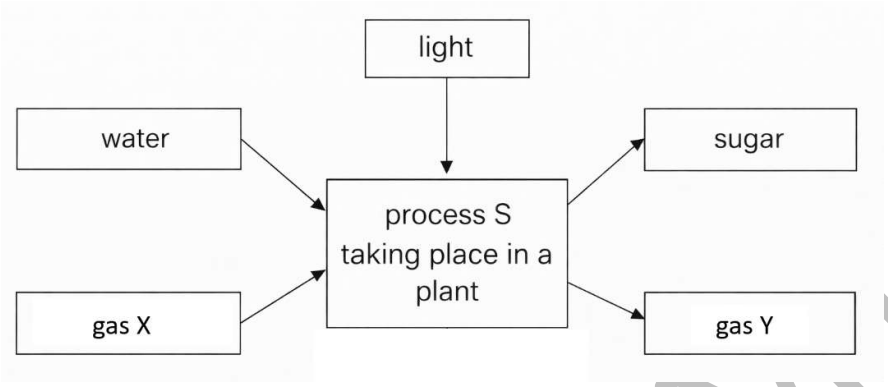
A. Fungi
B. Plants
C. Animals

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

( )

Use the information below to answer Questions 10 and 11.

The diagram below represents process S that takes place in a plant.

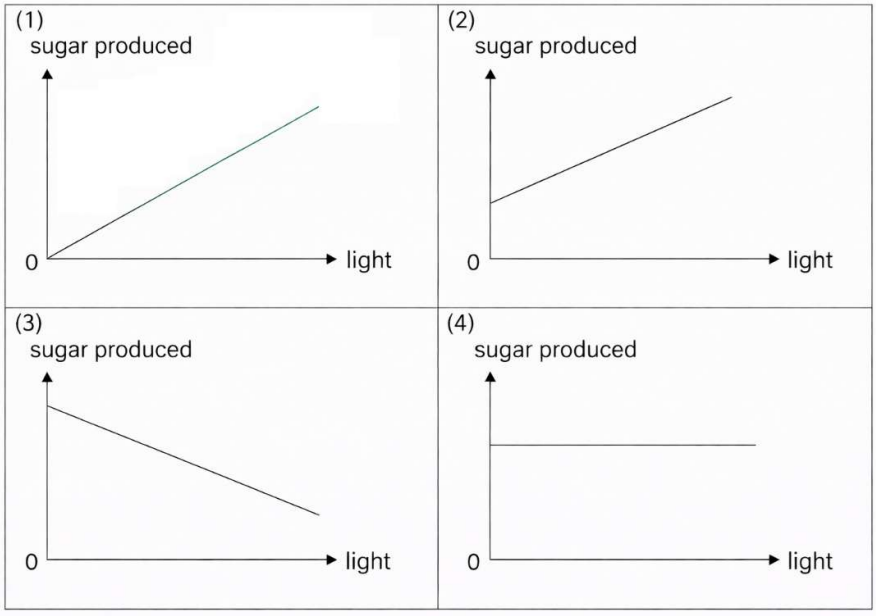


10. Which one of the following correctly identifies S, X and Y?

	Process S	Gas X	Gas Y
(1)	Respiration	Carbon dioxide	Oxygen
(2)	Respiration	Oxygen	Carbon dioxide
(3)	Photosynthesis	Carbon dioxide	Oxygen
(4)	Photosynthesis	Oxygen	Carbon dioxide

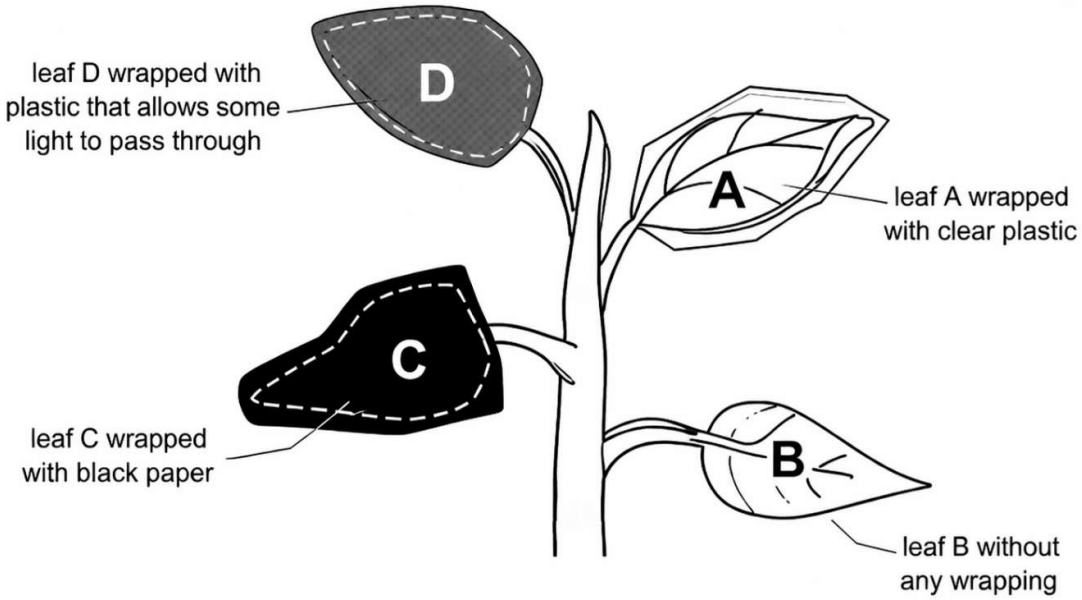
( )

11. Which of the following graph best shows the amount of sugar produced by a plant as the amount of light changes.



( )

12. A potted plant was left in a dark room for one day. Three similar leaves of the plant were then wrapped with different materials and place under the Sun for another day. Tiny holes were pierced in all the materials for air to enter. The leaves were then prepared and tested using iodine solution.

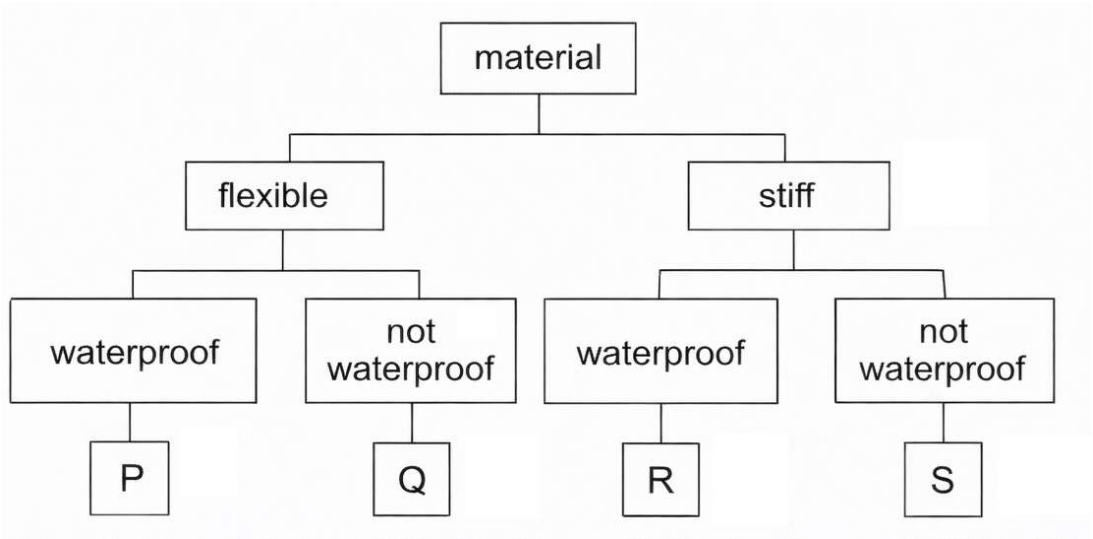


On which leaf/leaves would most likely turn the iodine solution dark blue when tested? (Iodine turns dark blue in the presence of starch.)

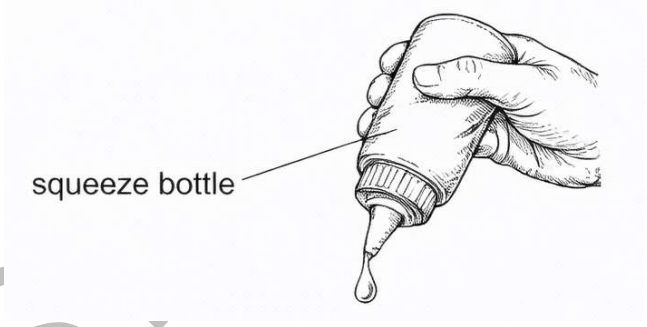
(1) Leaf C only
(2) Leaves C and D only
(3) Leaves A, B and D only
(4) Leaves A, C and D only

( )

13. The classification table below describes the properties of four materials P, Q, R and S.



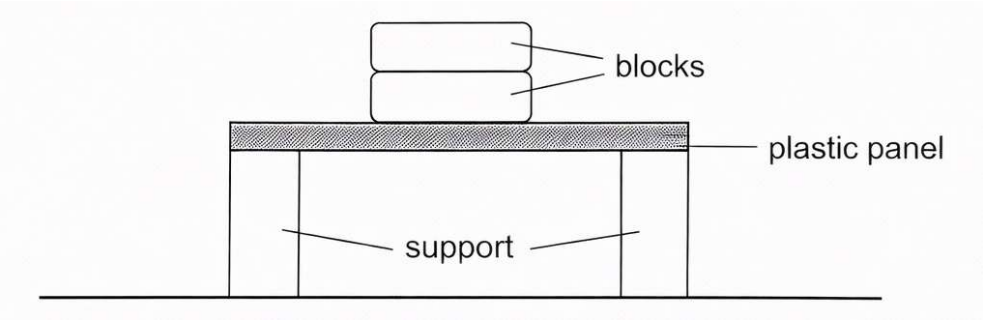
Which material is most suitable to be used to make a squeeze bottle?



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

( )

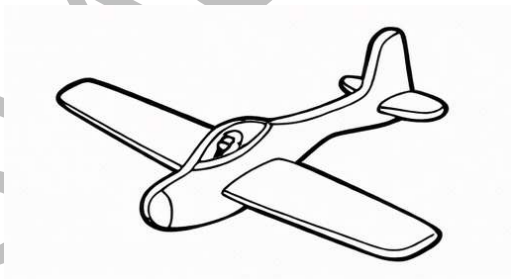
14. Daniel had four panels made from different types of plastic. The panels are of the same size and thickness. He placed blocks on top of each panel until it broke. The mass of each panel was also recorded.



The results of the experiment are recorded in the table below.

Plastic panel	Number of blocks	Mass of each panel (g)
W	5	130
X	3	130
Y	4	115
Z	5	115

Daniel wanted to make a toy airplane which needs to be both strong and light.



Which plastic panel is most suitable to make the toy?

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

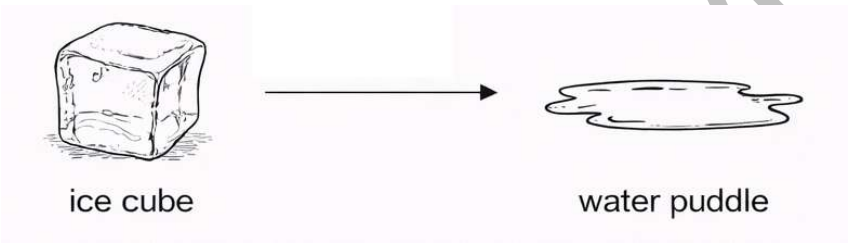
( )

15. Kelly drank from a bottle of juice using a straw. She was able to drink the juice using a straw because the juice _____.

(1) has mass
(2) occupies space
(3) cannot be compressed
(4) does not have a definitie shape

( )

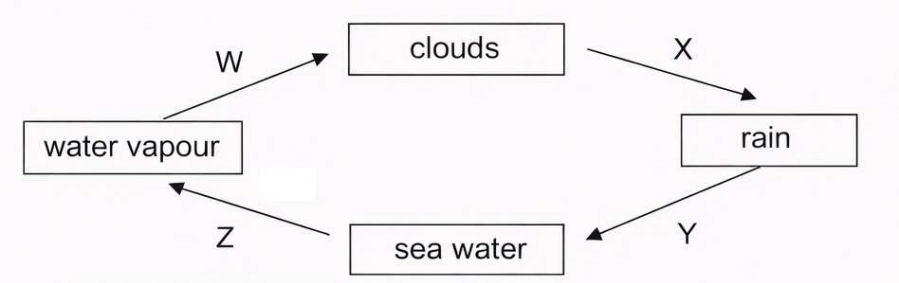
16. What is the process that is shown in the diagram below?



(1) Boiling
(2) Melting
(3) Freezing
(4) Condensation

( )

17. The digram below shows the water cycle.



Which of the following arrow(s) represent(s) water gaining heat between stages?

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

( )

18. The freezing points and boiling points of the three substances A, B and C are indicated below.

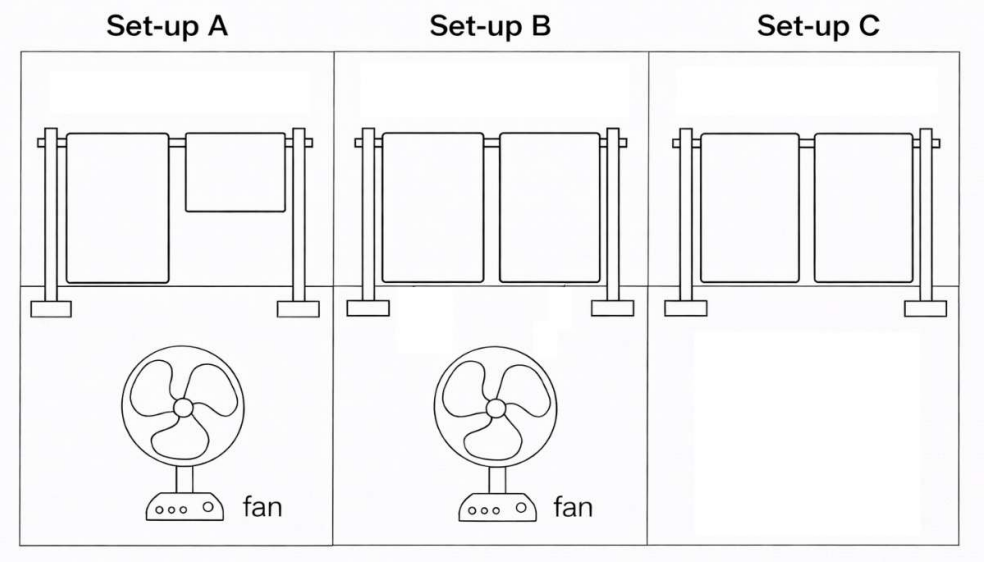
Substance	Freezing point (℃)	Boiling point (℃)
A	4	60
B	55	212
C	40	108

At which temperature would all 3 substances be in the liquid state?

(1) 14℃
(2) 35℃
(3) 58℃
(4) 71℃

( )

19. Tim wet 6 identical pieces of cloth with the same amount of water. He prepared 3 set-ups, A, B and C in a room, using the cloth folded or unfolded.

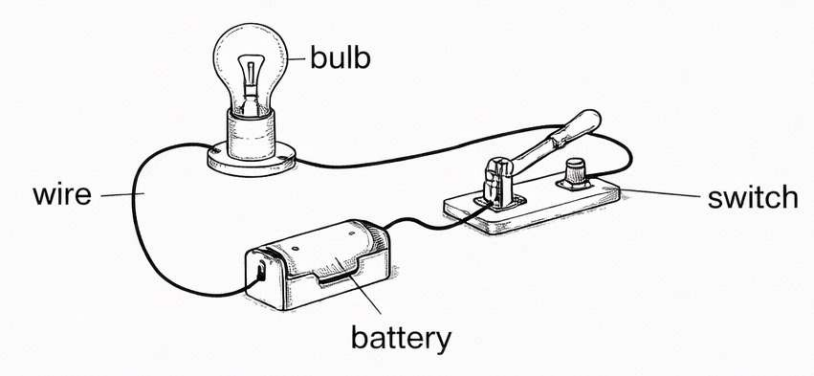


Which set-up(s) can he use to investigate the presence of wind on the rate of evaporation?

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

( )

20. The diagram shows an electric circuit.

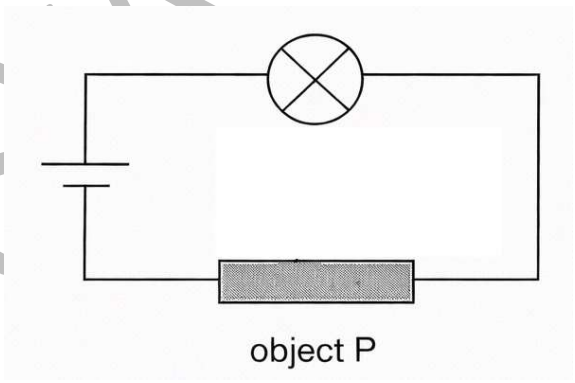


Which component is the energy source of the circuit?

(1) Bulb
(2) Wire
(3) Switch
(4) Battery

( )

21. The diagram below shows a circuit. The bulb did not light up.

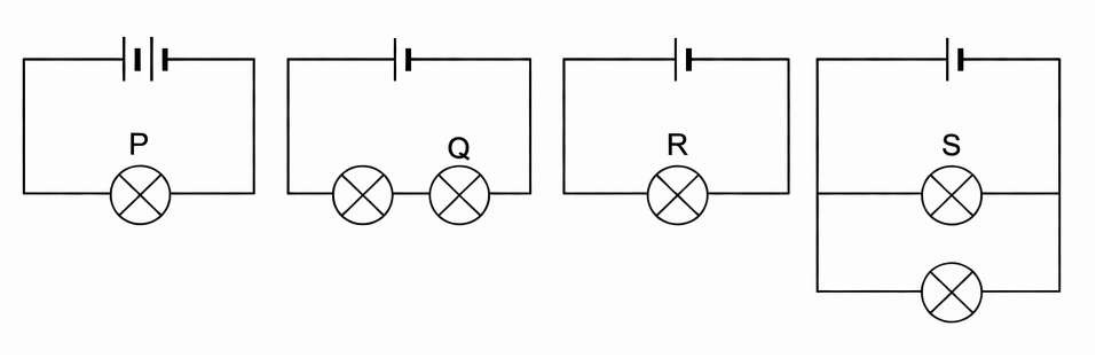


What could object P be?

(1) Iron bar
(2) Glass rod
(3) Copper rod
(4) Bar magnet

( )

22. Four circuits were set up as shown below. All the batteries and bulbs are identical and working.

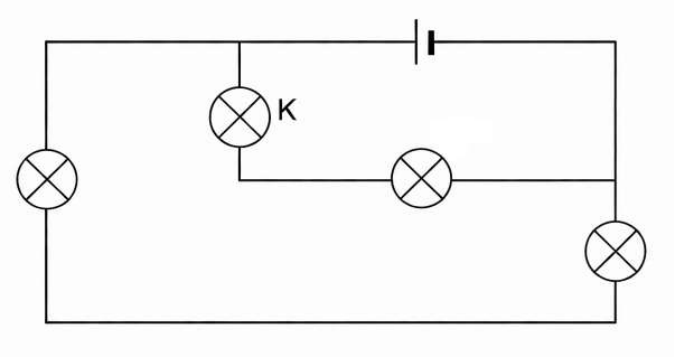


Which bulbs, P, Q, R and S, will have the same brightness?

(1) Bulbs P and Q only
(2) Bulbs P and S only
(3) Bulbs R and S only
(4) Bulbs Q, R and S only

( )

23. The circuit below is made up of a battery and 4 bulbs.

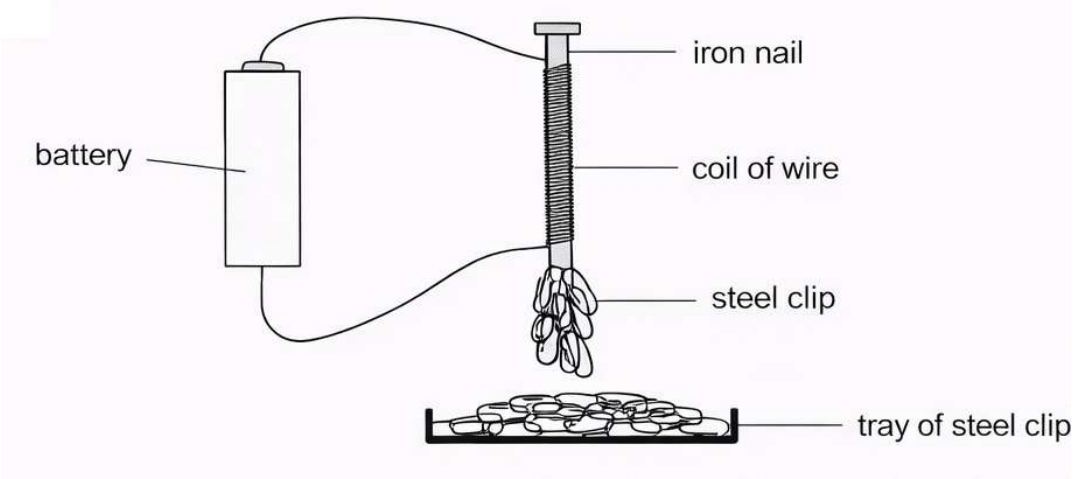


Bulb K blew, how many bulbs in the circuit remain lit?

(1) 1
(2) 2
(3) 3
(4) 0

( )

24. The diagram below shows an electromagnet placed near a tray of steel paper clips.

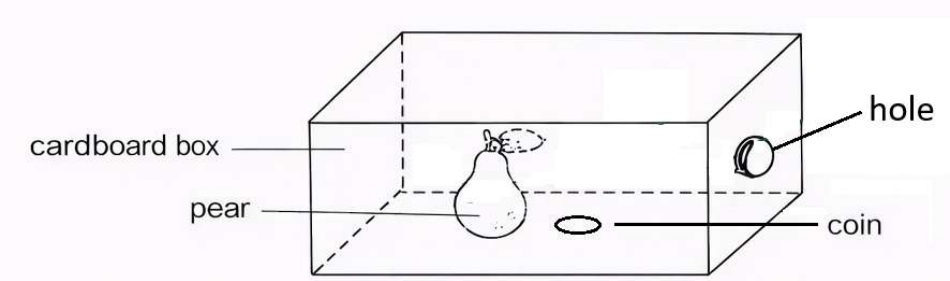


Which one of the following will decrease the number of steel clips attracted to the electromagnet?

(1) Remove some steel clips from the tray.
(2) Add another battery to the electromagnet.
(3) Move the iron nail closer to the tray of steel paper clips.
(4) Derease the number of coils of wires on the iron nail.

( )

25. Devi placed a pear and a coin in a cardboard box. The box is completely closed except for a hole at the side.

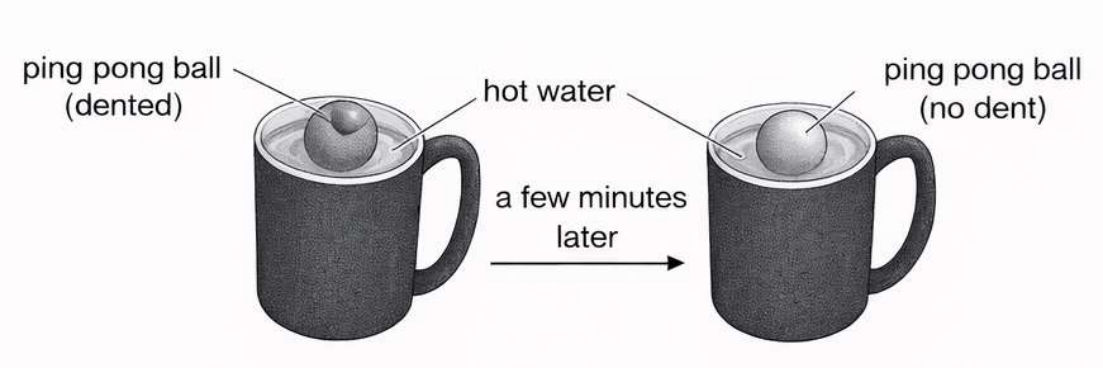


Which of the objects colud Devi see when she looked through the hole?

(1) Coin only
(2) Pear only
(3) Both the pear and the coin
(4) None of the objects

( )

26. Jane placed a dented ping pong ball in a mug of hot water. Few minutes later, the dent disappeared.

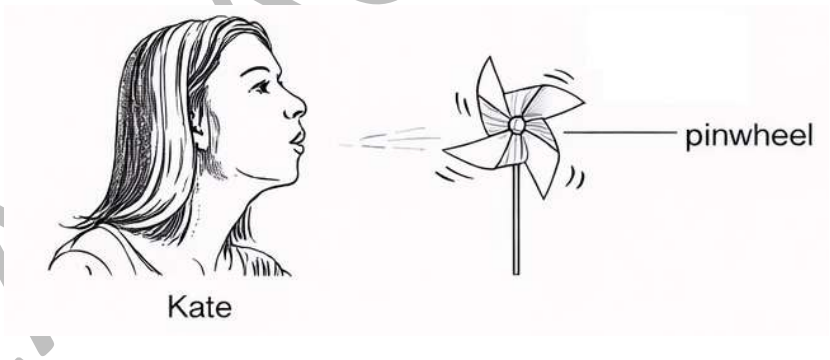


What caused the dent in the ping pong ball to disappear?

(1) The hot water expanded and pushed the dented part out.
(2) Air in the ping pong ball expanded and pushed the dented part out.
(3) Heat in the ping pong ball expanded and pushed the dented part out.
(4) Air around the ping pong ball expanded and pushed the dented part out.

( )

27. Kate has a pinwheel. She blew onto it and it rotated.

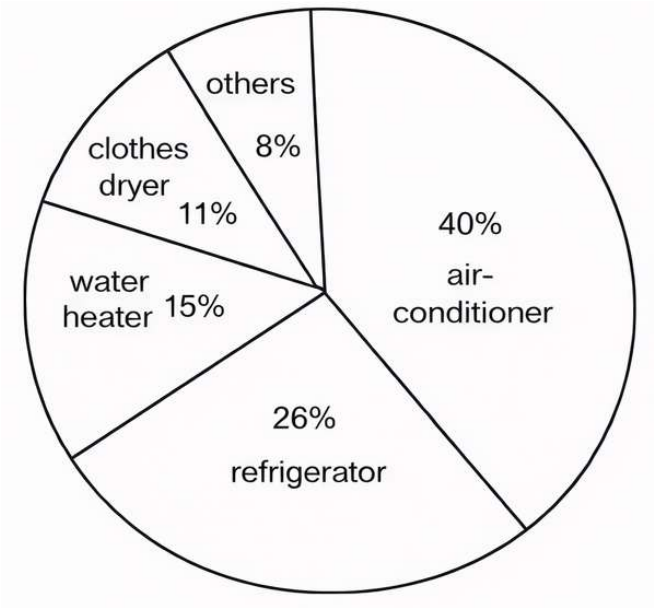


Which one of the following correctly shows the main energy conversion that caused the pinwheel to rotate?

(1) Kinetic energy (wind) → kinetic energy (pinwheel)
(2) Kinetic energy (wind) → potential energy (pinwheel)
(3) Potential energy (wind) → kinetic energy (pinwheel)
(4) Potential energy (wind) → potential energy (pinwheel)

( )

28. The pie chart shows the use of electrical energy in Ali's household.

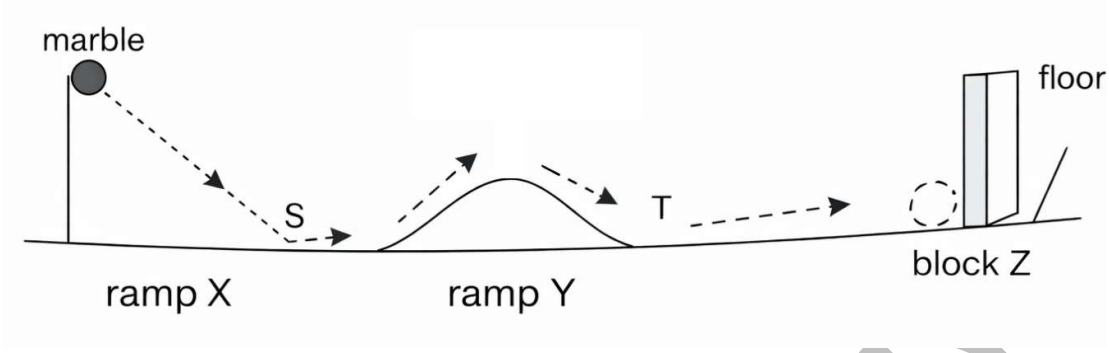


Which suggestion is the most helpful for Ali's household to reduce their energy usage?

(1) Make sure the refrigerator door is shut tightly.
(2) Switch off the water heater when it is not in used.
(3) Use the fan instead of the air-conditioned to keep cool.
(4) Dry their clothes in the Sun instead of using the clothes dryer.

( )

29. Zackary set up an experiment as shown below.



He released a marble from the top of ramp X. The marble rolled downwards and moved along the floor before it travelled up ramp Y and rolled down again. It hit against block Z and then stopped moving.

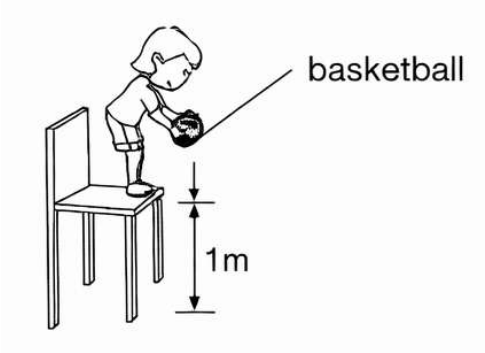
Which of the following statements are true for the above experiment?

A. The marble has more kinetic energy at S than at T.
B. When the marble was released, it gained potential energy.
C. When the marble was moving from T towards block Z, it gained kinetic energy.
D. When the marble hit block Z, some of its energy was converted to sound energy.

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

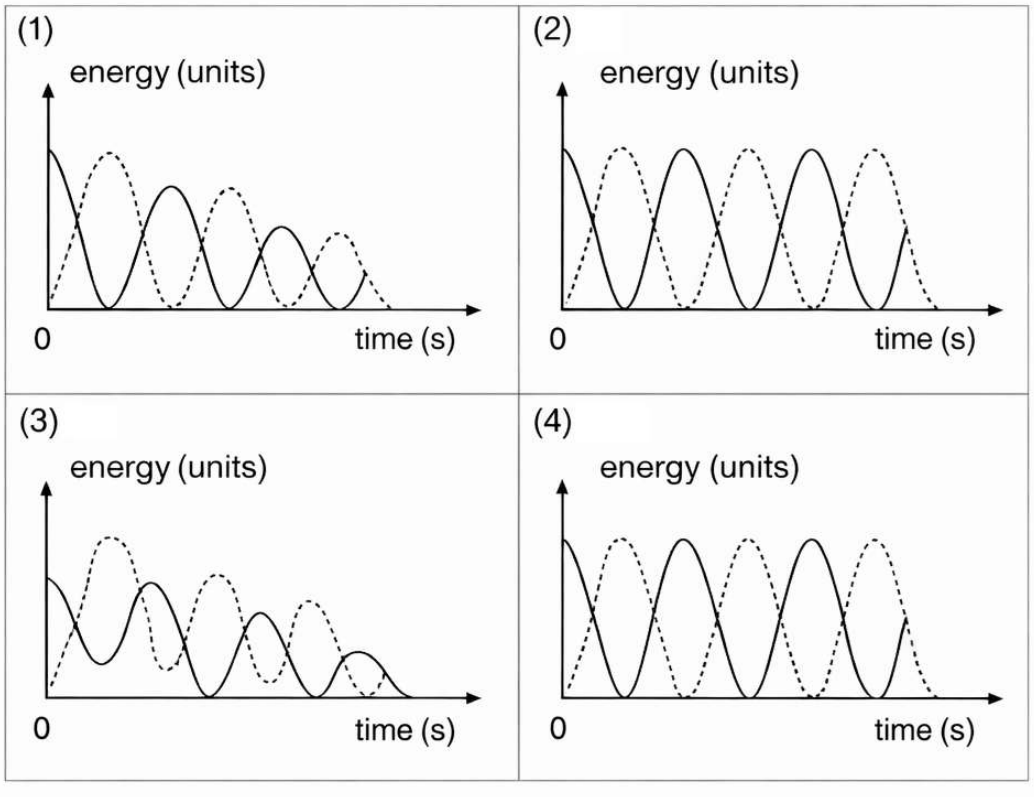
( )

30. Wei Wei stood on a high chair and released a basektball from a height of 1 m.



Which one of the following graphs correctly shows the relationship between the potential energy and kinetic energy of the ball from the time it was released by Wei Wei?

Key:
——— potential energy
- - - - - - - - - - - - - kinetic energy



( )

Section B: For Questions 31 to 40, write your answers in the spaces provided. The number of marks available is shown in the brackets at the end of each question or part question.

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31. Diagram 1 shows where four different types of plants A, B, C and D can be found growing on different parts of an island.

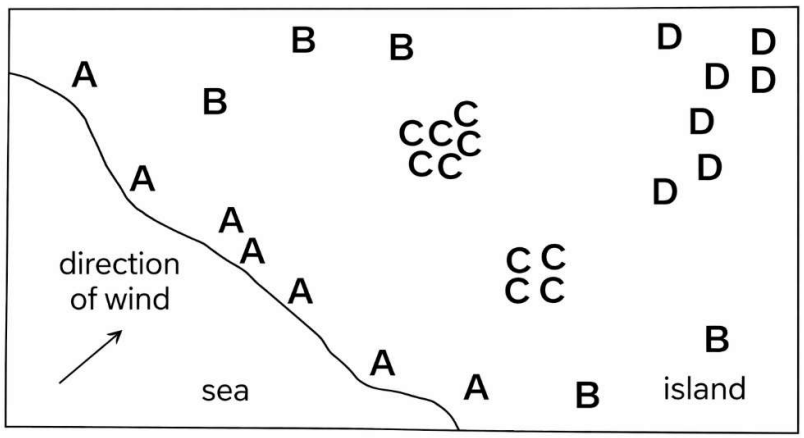


diagram 1

(a) Based on the diagram, which plant is likely to be the least healthy? Explain your reasoning. [2]

_____

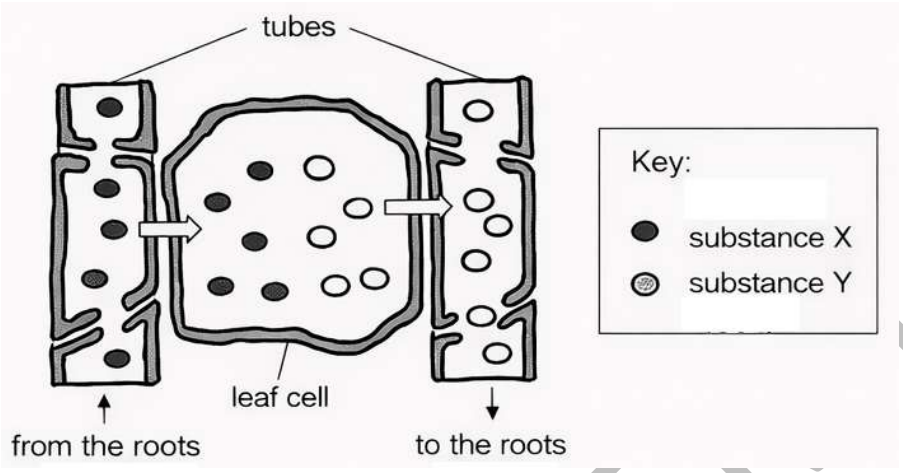
_____

(b) The seeds of plant B are small, hard and surrounded by a fleshy and juicy covering. Describe how the seeds of plant B could be dispersed. [2]

_____

_____

32. The diagram below represents a leaf cell, water-carrying and food-carrying tubes of a plant, and the substances they carry during the day.

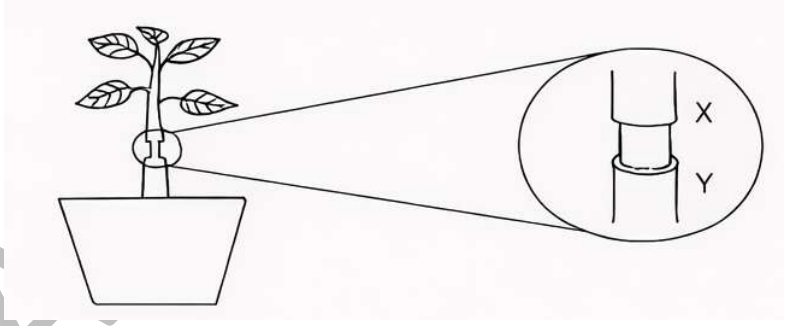


(a) Identify substances X and Y. [2]

Substance X: _____

Substance Y: _____

An outer ring of the stem between positions X and Y is removed.

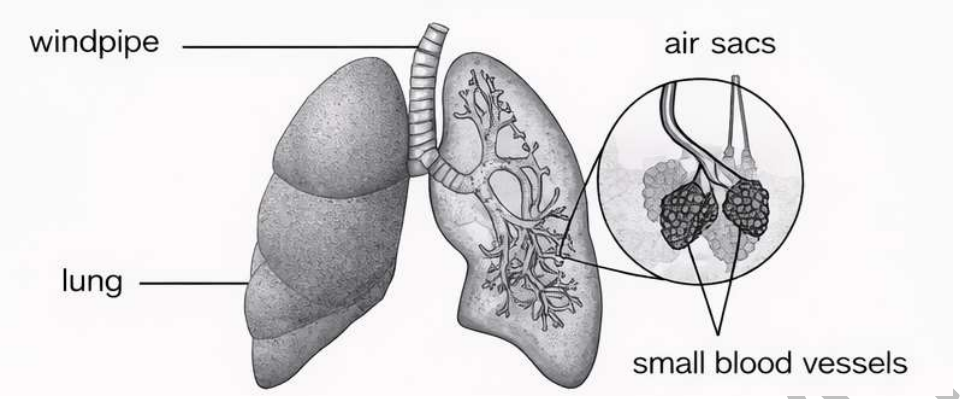


(b) Which part of the stem, X or Y, would appear swollen? Explain why the part of the stem appeared swollen? [2]

_____

_____

33. Study the diagram of the human parts below.



(a) The windpipe and lungs belong to which body system? [1]

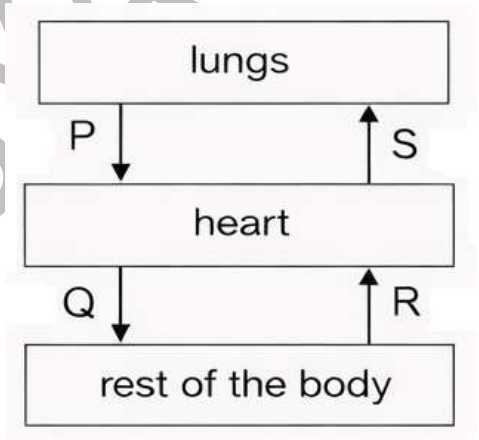
_____

(b) The air sacs in the lungs have a rich supply of blood vessels. Explain the function of the blood vessels that surround the air sace. [1]

_____

_____

The diagram below shows how blood flows in the various parts of the human body. Arrows P, Q, R and S represent the different blood vessels in the body.

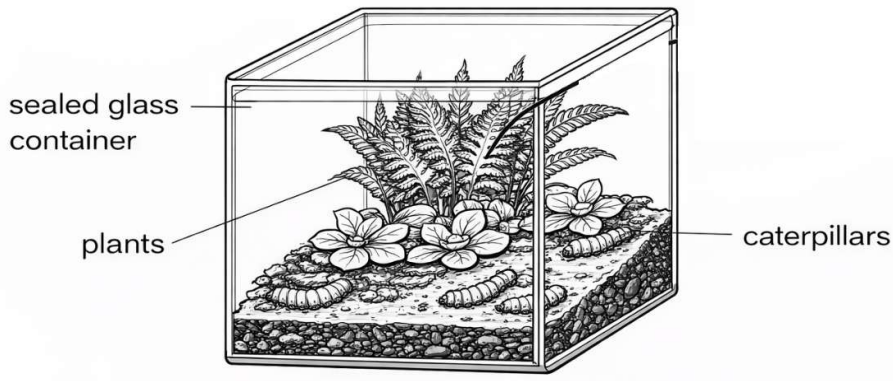


(c) Identify the blood vessels that are carrying:

(i) blood that is rich in oxygen: _____ [1]

(ii) blood that is poor in oxygen: _____ [1]

34. The diagram below shows some caterpillars in a sealed glass container filled with plants.



(a) Explain how the energy obtained by the caterpillars living in the sealed container can be traced back to the Sun. [2]

_____

_____

The plants in the sealed glass container carry out a process in the presence of light.

(b) What is the process that is carried out by the plants in the presence of light? [1]

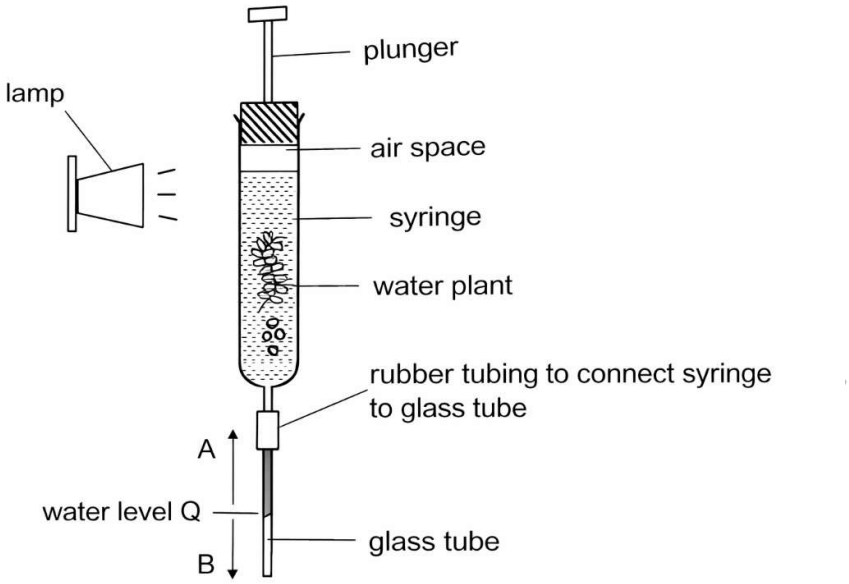
_____

(c) Describe how the plants depend on the caterpillars for them to carry out the proces mentioned in (b). [1]

_____

_____

35. Joel conducted an experiment with the set-uo below.



(a) After some time, Joel observed bubbles appearing from the plant and the water level Q in the glass tube moved. Given that the plunger remains at the same position, will water level Q move towards A or B? Explain your choice. [2]

_____

_____

(b) Without changing any of the above apparatus, suggest one thing Joel can do if he wants the plant to produce more bubbles. Explain your answer. [2]

_____

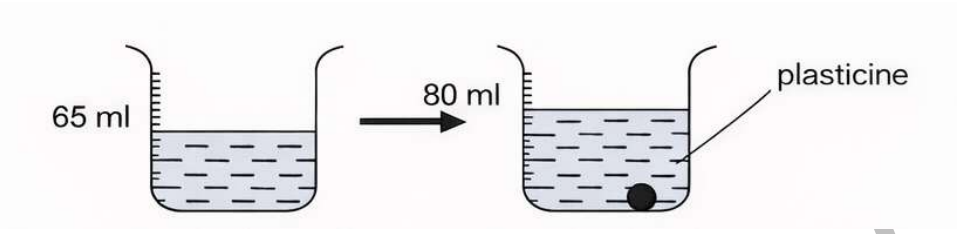
_____

(c) It was found that the number of bubbles became fewer after some time although Joel did not change the set-up. Give a possible reason why this was so. [1]

_____

_____

36. Sally has a beaker with 65 ml of water. She placed a ball of plasticine into the water. She observed that the water level rose to 80 ml.



She then flattened the plasticine ball and placed it back into the water.

(a) What would the water level be this time? Explain your answer. [1]

_____

_____

Sally then read a story, "The Crow and the Pitcher", where the crow dropped several stones into the pitcher to raise the level of the water so that it could drink the water.

(b) Why did the water level increase when stones are dropped into the pitcher? [2]

_____

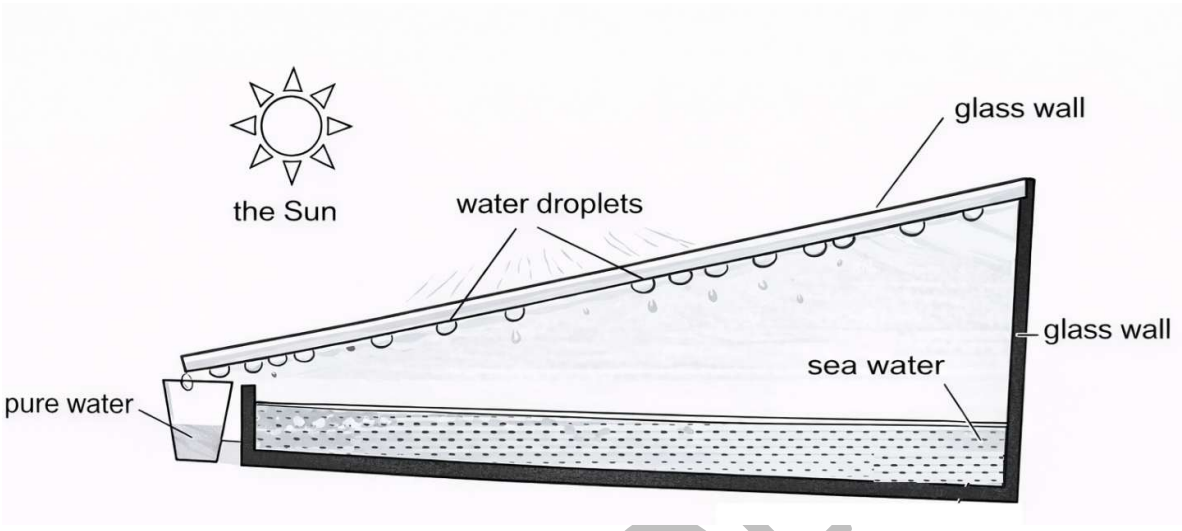
_____

(c) The crow found an object K and dropped it into the pitcher. However, the water level did not increase. Suggest a reason why the water level remained the same even when object K was dropped into the pitcher. [1]

_____

_____

37. Farhan has a set-up as shown in the diagram below that uses energy from the Sun to produce pure water from sea water.



(a) After the set-up was placed under the Sun for some time, water droplets started forming on the glass wall. Based on the diagram above, describe clearly the processes that take place in the set-up that produced pure water from sea water.

[2]

_____

_____

_____

_____

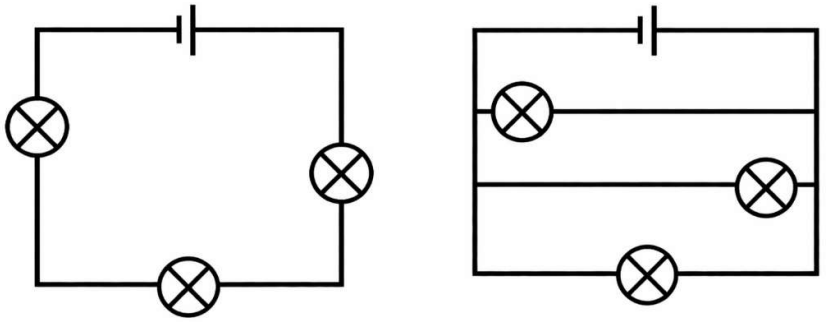
After a few hours, under the Sun, Farhan observed that the water droplets stopped forming on the glass wall of the set-up, even though there is still plenty of sea water left in the container.

(b) Explain why the water droplets stopped forming on the glass wall. [1]

_____

_____

38. Two circuits, P and Q, are set up as shown below.



circuit P **circuit Q**

(a) How are the bulbs arranged in each circuit? [2]

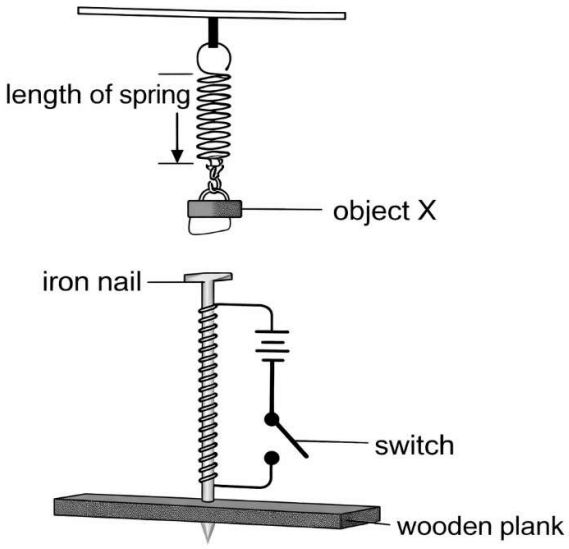
(i) Circuit P: _____

(ii) Circuit Q: _____

(b) You are provided with a switch, 2 batteies and 2 bulbs, B1 ans B2. Draw wires to complete the circuit below such that:

- Bulb B1 will always be lit even when the switch is open, and
- Bulb B2 will only be lit when switch is closed. [2]

39. Katelyn hung object X on a spring as shown below. She placed an electromagnet below the object and recorded the length of the spring. She repeated the experiment with objects Y and Z.



The table below shows the length of the spring for each object after the switch was closed.

Object	Original length of spring (cm)	Length of spring after switch was closed (cm)
X	12	15
Y	12	9
Z	12	12

(a) Which object is definitely a magnet? Explain your answer. [2]

_____

_____

_____

(b) Suggest two changes to the set-up to increase the length of the spring when the switch is closed for object X. [2]

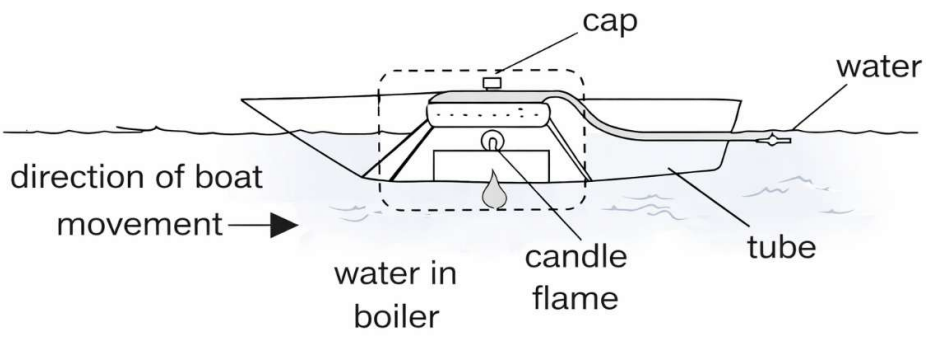
_____

_____

_____

_____

40. Study the cross-section of a toy boat as shown below.



Water is added into the boiler and the cup is sealed tightly. The candle is then lit. when the water in the boiler boils, steam will escape through the tube, pushing the toy boat in the direction indicated by the arrow.

(a) Explain why the cap at the top of the boiler must be sealed tightly for the toy to work properly. [1]

_____

_____

(b) Complete the blanks below to show the main energy conversion that take place for the toy boat to move forward. [1]

_____ → _____ + _____ → kinetic energy

energy of candle flame energy of steam of toy boat

(c) Suggest a change that can be made to the boilet to make the toy boat move faster. [1]

_____

_____

(d) Explain your answer in (c) in terms of energy conversion. [1]

_____

_____