

**Section A: (18 X 2) 36 marks**

For each question from 1 to 18, three options are given. One of them is the correct answer. Shade the correct oval (1, 2 or 3) on the Optical Answer Sheet (OAS) provided.

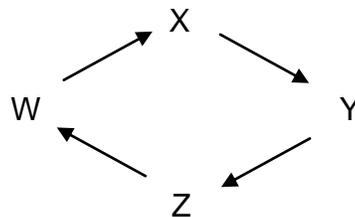
1. Study the information in the table shown below carefully. **[C]**

	Can grow	Can reproduce	Can respond to changes	Needs Sunlight
Q	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
R	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
T	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Which of the following represent living things?

- (1) Q and R only
- (2) Q and T only
- (3) Q, R and T only

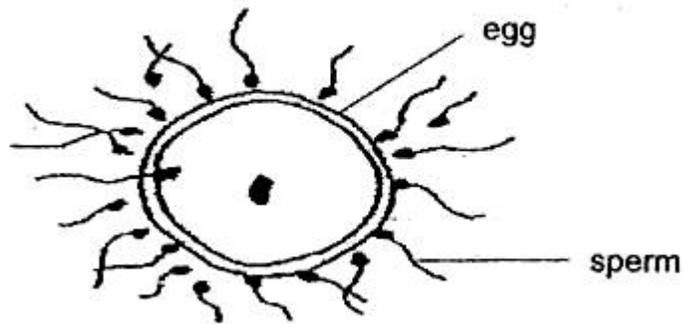
2. Mala drew a diagram to show the processes of the sexual reproduction in a flowering plant. **[C]**



Which of the following do W, X, Y and Z **correctly** represent?

	W	X	Y	Z
(1)	Seed dispersal	Fertilisation	Germination	Pollination
(2)	Seed dispersal	Germination	Fertilisation	Pollination
(3)	Pollination	Fertilisation	Seed Dispersal	Germination

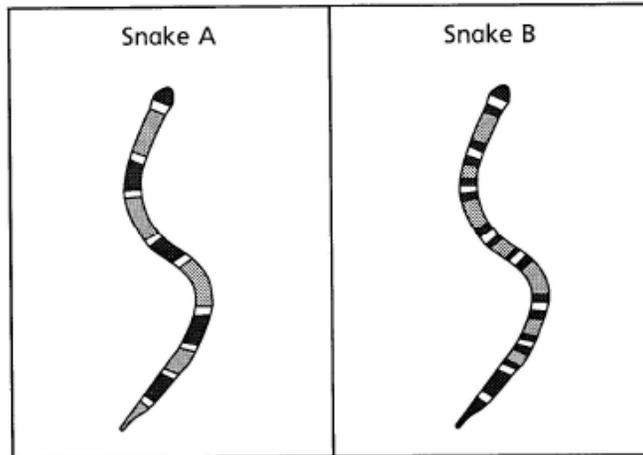
3. The diagram below shows a human egg and some sperms. [K]



Which one of the following statements about fertilization is correct?

- (1) The fertilized egg grows in the stomach.
- (2) All the sperms are needed for fertilisation.
- (3) The sperm fertilises the egg in the fallopian tube.

4. Study the diagram below, which shows two types of snakes. [C]



Snake A is poisonous but not Snake B.  
How is it useful for Snake B to look like Snake A?

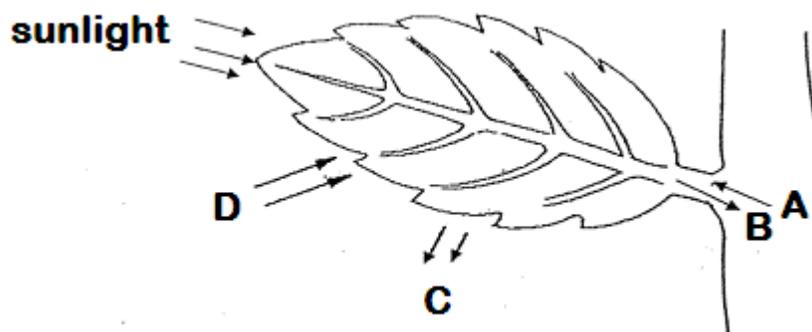
- (1) To move fast
- (2) To warn preys
- (3) To warn predators

- \*5. Ereton observed and recorded the number of frogs in a pond over four months. The table below shows the results. **[C]**

Month	February	March	April	May
Temperature	29°C	27°C	32°C	30°C
Number of frogs	178	150	200	189

Which one of the following reasons could explain the change in the number of frogs in the pond?

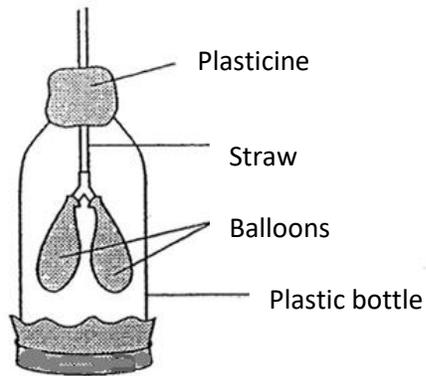
- (1) When the temperature increases, more eggs hatch into tadpoles.
  - (2) When the temperature increases, more frogs are eaten up by predators.
  - (3) When the temperature increases, diseases spread and kill the frogs.
- \*6. The diagram below shows the movement of substances in and out of a leaf when plants make food. **[C]**



Which of the following identifies substances A, B, C and D **correctly**?

	A	B	C	D
(1)	Oxygen	Carbon dioxide	Water	Food
(2)	Water	Carbon dioxide	Oxygen	Food
(3)	Water	Food	Oxygen	Carbon dioxide

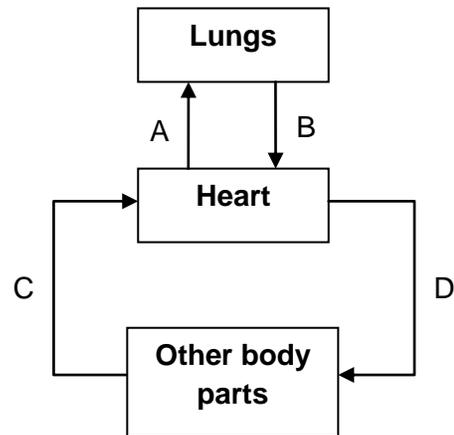
7. The picture below shows a model of the respiratory system. [K]



What do the following items used in the model represent in the human body system?

	<b>Straw</b>	<b>Balloons</b>
(1)	Windpipe	Lungs
(2)	Lungs	Windpipe
(3)	Windpipe	Heart

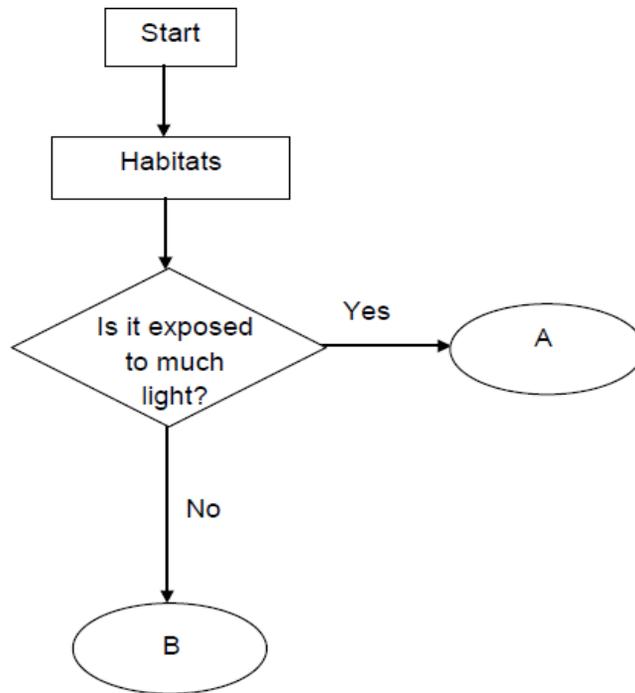
- \*8. In the diagram below, **A**, **B**, **C** and **D** represent the blood flowing in the blood vessels of the human body. The arrows represent the direction of blood flow. [**A**]



Which of the following statements is correct?

- (1) **A** is richer in oxygen than **C**.
- (2) **B** is richer in oxygen than **C**.
- (3) **D** is richer in carbon dioxide than **A**.

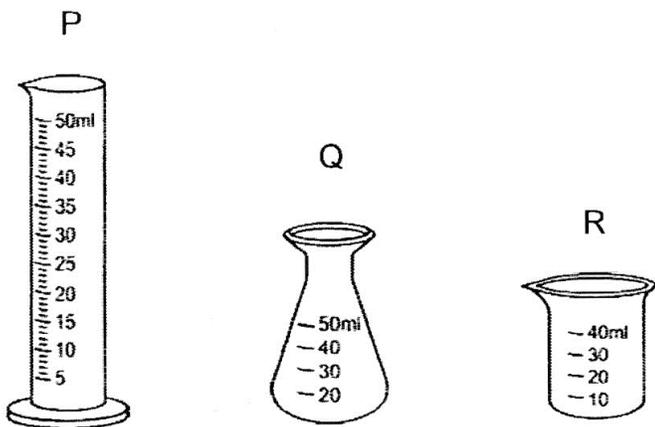
\*9. Study the flow chart below. [A]



Which of the following habitats are **A** and **B** likely to be?

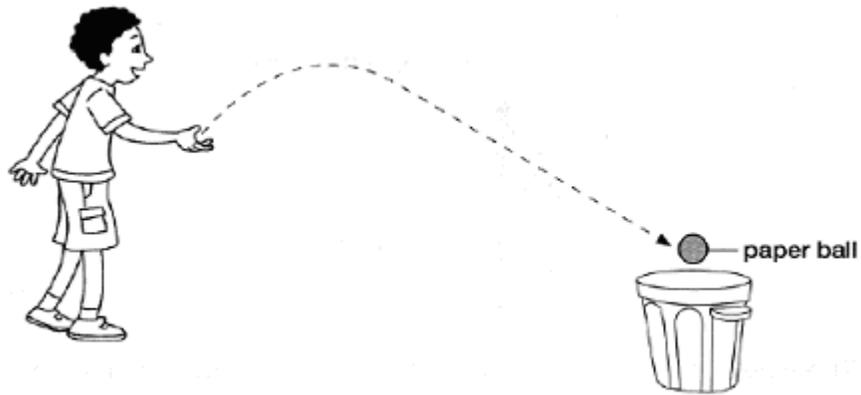
	<b>A</b>	<b>B</b>
(1)	Field	Leaf Litter
(2)	Leaf Litter	Rotting log
(3)	Garden	Seashore

10. John would like to measure 35 ml of oil for an experiment. Which of the following instruments will give the most accurate measurement of the volume of oil? **[K]**



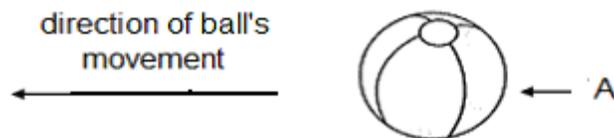
- (1) P
- (2) Q
- (3) R

- \*11. Izzat threw a paper ball into a bin. The path of the ball is shown by the curve line drawn. **[C]**



Which of the following force(s) caused the ball to move in the path shown?

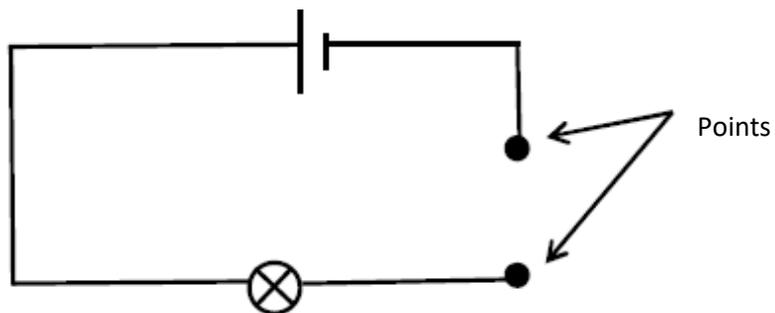
- (1) A push from his hand.
  - (2) A push from his hand and friction.
  - (3) A push from his hand and gravity.
12. The ball below is moving in the direction indicated by the arrow. **[C]**



If a force is applied on the ball from position A, the ball will \_\_\_\_\_.

- (1) stop
- (2) slow down
- (3) move faster

\*13. The circuit diagram of a circuit tester is shown below. [A]



Three objects X, Y and Z were connected to the points one at a time and the observations were recorded in the table below.

Object	Did the bulb light up?
X	No
Y	Yes
Z	No

What materials do X, Y and Z most likely represent?

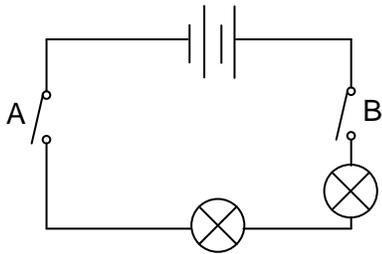
	X	Y	Z
(1)	Conductor of electricity	Insulator of electricity	Conductor of electricity
(2)	Insulator of electricity	Conductor of electricity	Insulator of electricity
(3)	Insulator of electricity	Conductor of electricity	Conductor of electricity

\*14. Jason set up a circuit with two switches A and B. He observed the results when he used the switches with different combinations. He then recorded his results in the table below. **[A]**

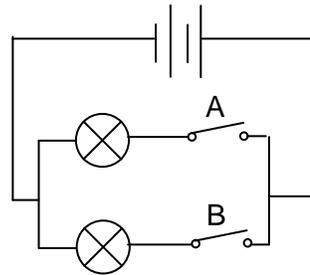
Switch A	Switch B	Number of bulbs lit
Open	Open	0
Closed	Closed	2
Closed	Open	2
Open	Closed	2

Which of the following circuits did Jason set up?

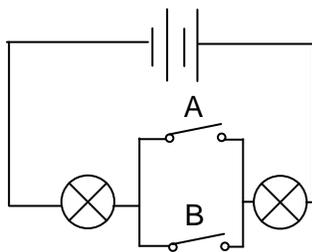
(1)



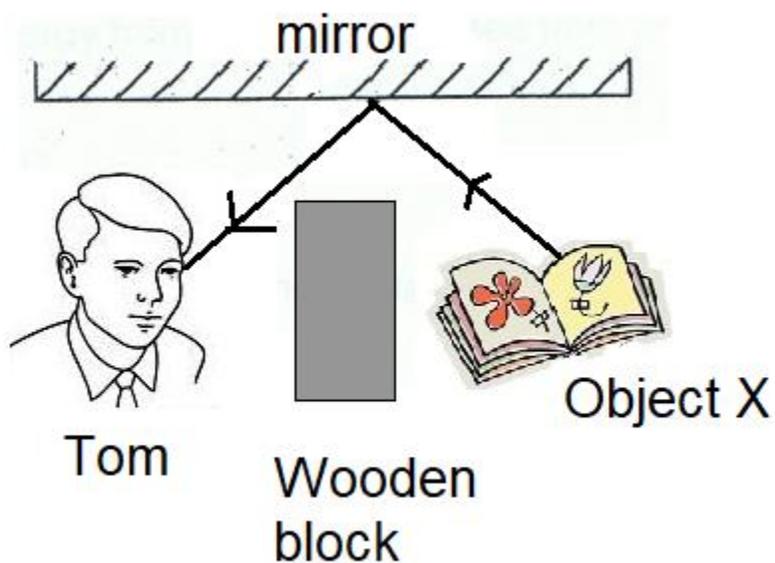
(2)



(3)



15. Tom wanted to find out if he could see an object using a mirror when his direct view is blocked. He set up an investigation with a mirror, a wooden block and Object X. He was able to see Object X in the mirror when he look into it. **[C]**



He could see the Object X because \_\_\_\_\_.

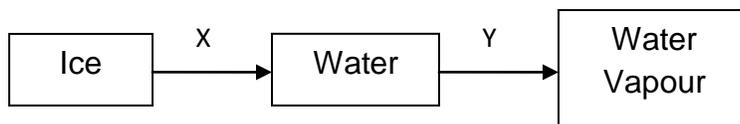
A: light can be pass through the wooden block

B: light can be reflected

C: light travels in straight lines

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

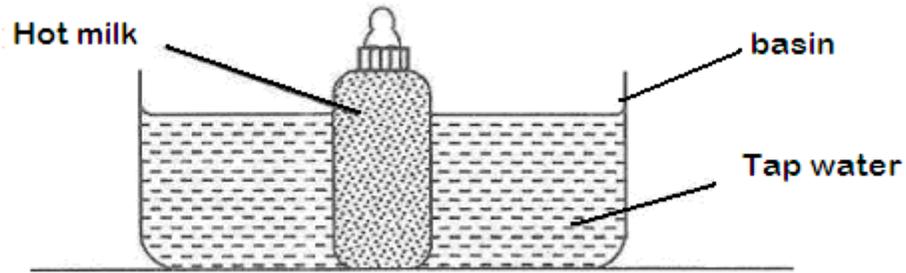
16. The diagram below shows the changes of state in water. [C]



Which of the following shows the processes taking place at X and Y?

	X	Y
(1)	Heat loss	Heat loss
(2)	Heat gain	Heat loss
(3)	Heat gain	Heat gain

\*17. Tim's mother placed a bottle of hot milk in a basin of tap water to cool it. **[A]**



Which of the following statement(s) is/are true for the above set-up after 30 minutes?

- A: The hot milk will lose heat.
- B: The tap water will lose heat.
- C: The tap water and milk will have the same temperature.

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

18. What of the following can cause global warming? **[C]**

- A: Cutting down a large number of trees in the forest.
- B: Higher daily average temperature of the Earth.
- C: Burning of fossil fuels.

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

End of Booklet A