

# **RED SWASTIKA SCHOOL**

### SCIENCE 2024 PRELIMINARY EXAMINATION PRIMARY 6

Name	·	<del></del>	(	)
Class	: Primary 6/		<b></b>	
Date	: 20 August 2024			

### **BOOKLET A**

Total time for Booklets A & B: 1h 45 min

Booklet A: 28 questions (56 marks)

#### Note:

- 1. Do not open the booklet until you are told to do so.
- 2. Read carefully the instructions given at the beginning of each part of the booklet.
- 3. Do not waste time. If the question is too difficult for you, go on to the next question.
- 4. Check your answers thoroughly and make sure you attempt every guestion.
- 5. In this booklet, you should have the following:
  - a. Page 1 to Page 22
  - b. Questions 1 to 28

For Questions 1 to 28, choose the most suitable answer and shade its number in the OAS provided.

1 The table below shows the characteristics of four organisms, A, B, C, and D. A tick (✓) represents the presence of the characteristic.

		Or	ganisms	
Characteristics	Α	В	С	D
Has fur	<b>√</b>			
Lays eggs	<b>/</b>		1 7	
Breathes through lungs	<b>√</b>	1		. 🗸
Lives on land and in water		<del></del>	1 /	

Study the following statements.

- A Organism A is a mammal.
- B Organism B is an amphibian.
- C Organism C is a reptile.
- D Organism D is a bird.

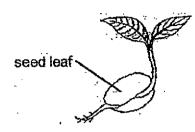
Which statement(s) is/are true?

- (1) D only
- (2) A and D only
- (3) B and C only
- (4) A, B and C only
- 2 Study the following statements. G and H are organisms.
  - · G produces fruits while H does not.
  - · G makes its own food while H does not.

What could G and H be?

	G	Н
(1)	fem	flowering plant
(2)	fem	fungi
(3)	flowering plant	fern
(4)	flowering plant	fungi

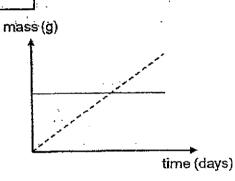
3 The diagram below shows a young plant that has germinated. The young plant was watered daily and placed in an open field.

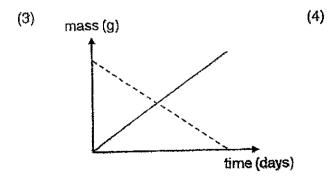


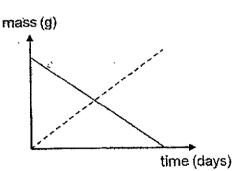
Which of the following shows how the mass of the seed leaf and the leaf-will change over time?

| <u>Key</u> ---- leaf | \_\_\_\_ seed leaf | \_\_\_\_ 1) | mass (g) | (2) | mass

(1) mass (g) time (days)

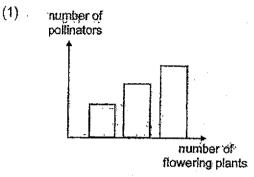


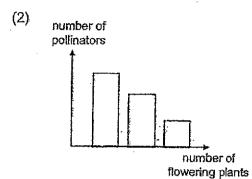




4 Kuma predicted that the greater the number of flowering plants in a park, the greater the number of pollinators found in the area.

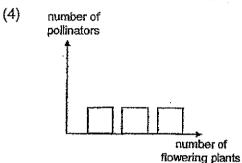
Which of the following supports his prediction?



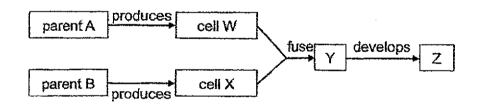


number of pollinators.

number of flowering plants



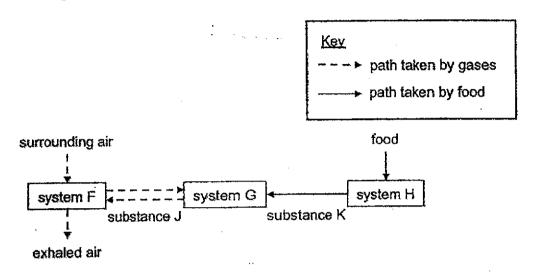
5 The following diagram shows the human reproduction process.



Which of the following contain(s) the characteristics of both parent A and parent B?

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

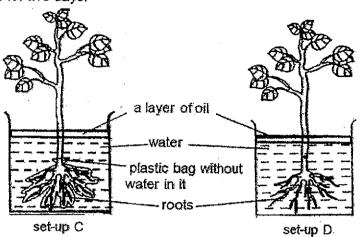
6 The diagram below shows how substances are transported in the human body.



What do systems F, G and H represent and what are substances J and K?

	System F	System G	System H	Substance J	Substance K
(1)	circulatory	respiratory	digestive	oxygen	carbon dioxide
(2)	respiratory	circulatory	digestive	carbon dioxide	digested food
(3)	digestive	respiratory	circulatory	digested food	carbon dioxide
(4)	respiratory	digestive	circulatory	carbon dioxide	digested food

Nadine set up the following experiments as shown below and left them by an open window for five days.



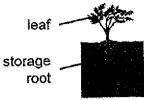
She recorded her observations in the table below.

Set-up	Amou	int of water in	set-ups at t	he end of the	day (ml)
Jecup	Day 1	Day 2	Day 3	Day 4	Day 5
C	500	500	500	500	500
D	500	495	487	480	474

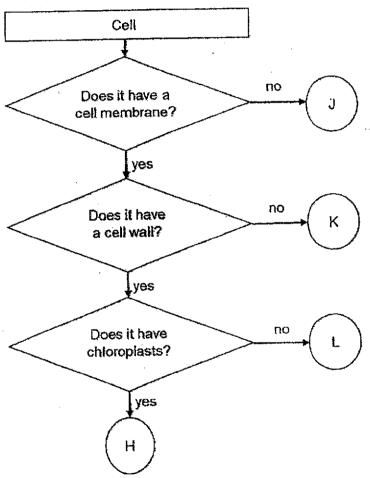
What is the aim of Nadine's experiment?

- (1) To find out if water evaporates.
- (2) To find out if roots take in water.
- (3) To find out if stems support the plant.
- (4) To find out if number of leaves affects water uptake in plants.

8 The diagram below shows a carrot plant. It is a plant with an underground storage root.



Study the flow chart below.



Which of the following, J, K, L or H, represents the leaf and the storage roots?

storage roots	leaf
L	H
K	L
J	К
H	J
	storage roots  L  K  J  H

9 The table below shows the amount of plastic waste collected from a coastal area over four months.

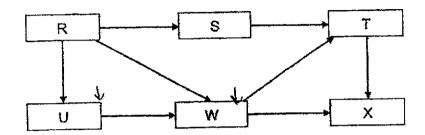
. Month	Plastic waste (kg)
January	50 000
February	65 000
March	120 000
April	150 000

Based on the data, which of the following statements is most likely true about the plastic waste in the coastal area from January to April?

- (1) There was a significant increase in plastic waste.
- (2) Efforts to reduce plastic waste were highly effective.
- (3) The amount of plastic waste collected remained constant.
- (4) The amount of plastic waste decreased steadily each month.

For questions 10 and 11, refer to the food web below.

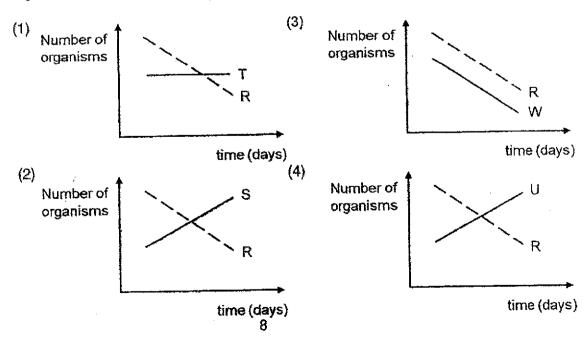
The diagram below shows a food web.



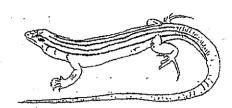
10 Which of the following, R, S, T, U, W and X, represents a producer, plant-eater and predator?

Producer	Plant-eater	Predator
R	S, U, W	T, X
Ū	W	S
U	S. W	R, T, X
'	S, U	W, T, X

11 Which of the following graphs correctly shows the relationship between the organisms in the food web when population of R decreases?



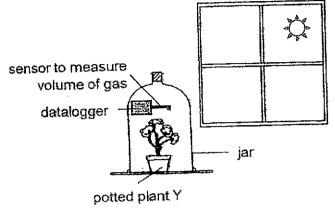
12 Animal L is shown below. It is brown in colour and found in a hot desert.



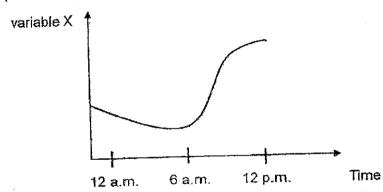
What is/are possible reason(s) why animal L is usually found burrowing in the sand in the desert?

- A To keep itself cool
- B To hide from its predators
- C To absorb more heat from the sand
- (1) Conly
- (2) A and B only
- (3) B and C only
- (4) A, B and C only

13 Lydia placed potted plant Y in a jar next to a window and recorded her observation over a period of time.



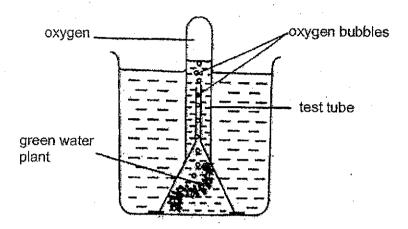
She then plotted the graph below.



Based on Lydia's experiment and results, what does variable X represent?

- (1) Amount of nitrogen taken in by plant Y
- (2) Amount of oxygen produced by plant Y
- (3) Amount of water vapour taken in by plant Y
- (4) Amount of carbon dioxide taken in by plant Y

14 Siti placed four similar set-ups at four different locations, A, B, C and D. For each location, only the intensity of the light was different.



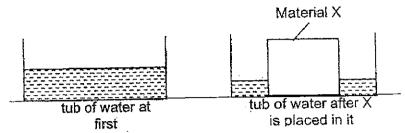
The table below shows the light intensity at the four locations.

	brightest	<del></del>	<del></del>	dimmest
Location	В	Α	C	D

Which of the following correctly shows the amount of oxygen produced (cm³) by the green water plant at locations A, B, C and D?

	Amount of oxygen produced (cm³) at each location						
	Α	В	C	D			
(1)	2	5	8	10			
(2)	10	8	5	2			
(3)	8	10	5	2			
(4)	5	2	8	10			

15 Patricia placed Material X into a tub of water as shown below.

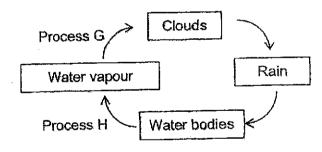


She recorded the volume of water before and after Material X was placed into the water. She repeated the experiment with Material Y, of the same shape and size, and recorded her results in the table below.

	Volume of water at the start (cm <sup>3</sup> )	Volume of water at the end (cm³)
Material X	100	55
Material Y	100	30

Which of the following is correct?

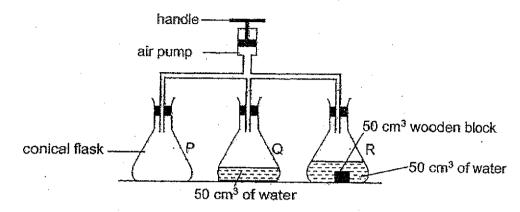
- (1) Material X is waterproof.
- (2) Material Y is more absorbent than Material
- (3) Material X is more suitable to be used as a towel than Material Y.
- (4) Material Y is more suitable to be used as a raincoat than Material X.
- 16 Study the diagram of the water cycle below.



Which of the following is correct?

	Process G	Process H
(1)	Heat is gained	Heat is lost
(2)	Heat is gained	Heat is gained
(3)	Heat is lost	Heat is gained
(4)	Heat is lost	Heat is lost

17 Three conical flasks, P, Q and R, with volume of 200 cm<sup>3</sup> each are connected to an air pump as shown below.

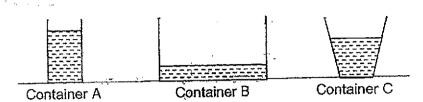


Each time the handle is pushed down, 20 cm<sup>3</sup> of air is pumped into each conical flask. The set-up is designed such that the air cannot flow backwards.

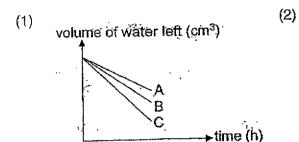
What is the final volume of air in each conical flask if the handle is pushed down once?

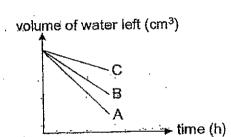
	Flask P (cm <sup>3</sup> )	Flask Q (cm <sup>3</sup> )	Flask R (cm³)
(1)	200	150	100
(2)	200	170	120
(3)	220	170	100
(4)	220	150	120

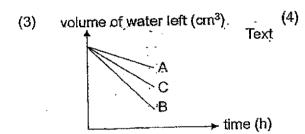
Dan poured equal volumes of water into three containers, A, B and C, as shown below. He left the containers under the sun at the same location for a few hours.

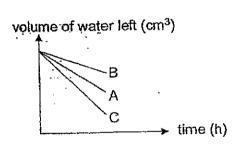


Which of the following graphs represents the volume of water left in the containers after a few hours?

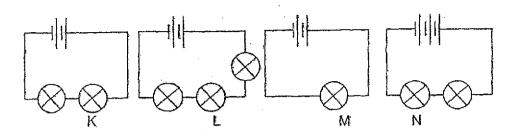






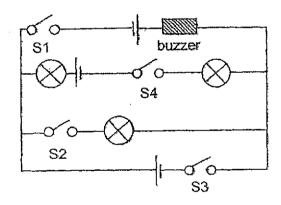


Study the four circuits below. All the batteries and bulbs in the four circuits are identical and in working condition.



Which of the following shows the correct order of bulbs K, L, M, and N, when arranged from the dimmest to the brightest?

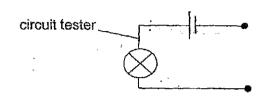
- (1) K, L, M, N
- (2)L, K, N, M
- M, N, L, K N, M, K, L (3)
- (4)
- The diagram shows a circuit with four open switches. 20



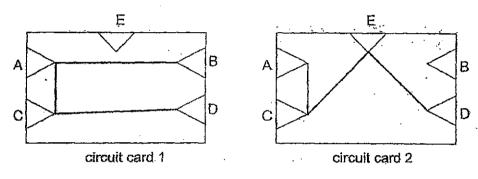
Which of the following will allow the buzzer to sound without any light bulbs lighting up?

	<b>S</b> 1	<b>S2</b>	<b>S</b> 3	S4
(1)	closed	closed	open	closed
(2)	open	closed	open	closed
(3)	open	open	closed	closed
(4)	closed	open	closed	open

21 Four students set up made use of a circuit tester to test two circuit cards.



The circuit cards have five points, A, B, C, D and E. Wires are connected to them as shown below.



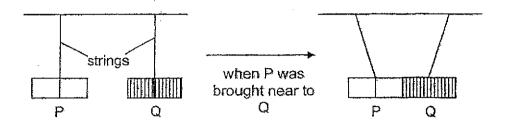
The four students recorded their results in the table below.

	Points	Circuit card 1	Circuit card 2
Student 1	A and E	Bulb did not light up	. Bulb lit up
Student 2	A and D	Bulb lit up	Bulb did not light up
Student 3	B and C	Bulb did not light up	Bulb did not light up
Student 4	B and D	Bulb did not light up	Bulb did not light up

Who made the correct observation?

- (1) Student 1
- (2) Student 2
- (3) Student 3
- (4) Student 4

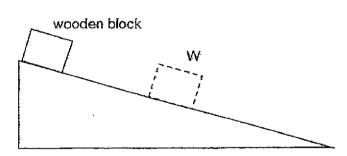
22 Rods P and Q of similar masses were hung by a string each on the ceiling. When Aminah brought rod P closer to rod Q, Q moved towards P.



Which conclusion about P and Q is correct?

	P	Q
(1)	magnet	steel
(2)	magnet	aluminium
(3)	copper	magnet
(4)	iron	steel

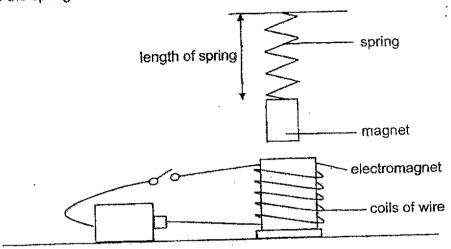
23 Siti pushed a wooden block down a slope. The wooden block moved down the slope and slopped at W.



Which force(s) acted on the wooden block?

	Frictional force	Gravitational force
[ (1)	No	Yes
(2)	No	No
(3)	Yes	Yes
(4)	Yes	No

24 Look at the set-up below. Arun hung a magnet at the end of the spring. The length of the spring was 5 cm before he closed the switch.

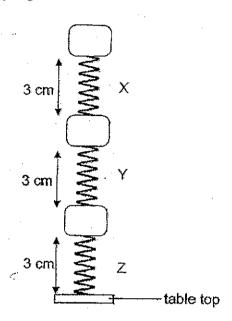


Experiment	Number of batteries used	Direction magnet moved	Length of spring after switch was closed (cm)
Λ	1	upward	4
<u> </u>	1	downward	6
B	2	upward	3
<u>_</u>	2	downward	7

Which two experiments support the hypothesis: "When the number of batteries used increases, the poles of the electromagnet will remain unchanged."?

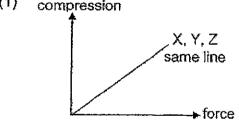
- (1) A and B
- (2) A and D
- (3) B and C
- (4) B and D

25 Three different springs, X, Y and Z, have the same length. When three identical blocks are placed on the springs, the results are as shown.

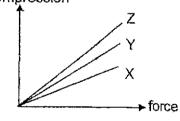


Which of the following correctly shows the relationship between the elastic spring force and the compression of springs X, Y and Z?

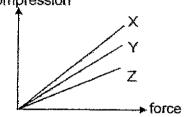
(1) compression



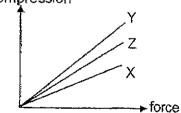
(2)compression



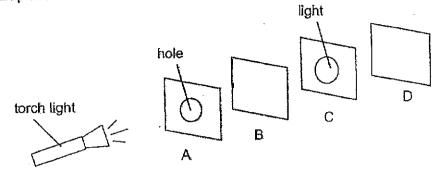
(3)compression



(4)compression



26 Ethan placed four different materials in a straight line as shown below.

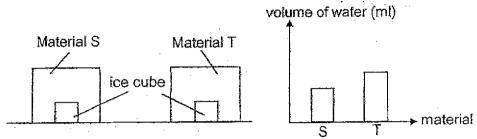


Material A has a hole cut out in the middle. Ethan switched on the torch and placed it in front of material A, a spot of light was observed on material C, but not materials B and D.

Which of the following can be concluded from his experiment?

- P Material A allows no light to pass through it.
- Q Material B allows most light to pass through it.
- R Material C allows the most light to pass through it.
- S Material D allows no light to pass through it.
- (1) P and Q only
- (2) P and R only
- (3) Q and R only
- (4) R and S only

27 Eric placed an ice cube each into boxes made of material S and T. After 30 minutes, he measured the volume of water collected in each box. Her results are shown in the graph below.

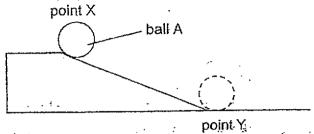


Eric wants to pack hot food and cold drinks using two containers. Which material should he choose to keep the food hot and the drinks cold for the longest period of time?

Γ	Materials for carrying	
	Hot food	Cold drinks
1)	S	T
2)	. S	S
3)	T	T
4)	T	S

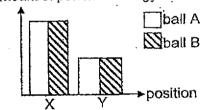
Felicia released ball A at the top of a slope, point X, as shown in the diagram below. The ball moved down the slope and past point Y.

She repeated the experiment with ball B which has more mass.

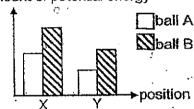


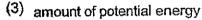
Which of the following graphs shows the changes in the amount of potential energy for balls A and B at positions X and Y?

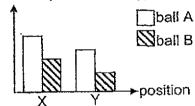




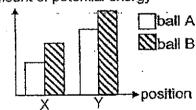
(2) amount of potential energy







(4) amount of potential energy





# **RED SWASTIKA SCHOOL**

## SCIENCE 2024 PRELIMINARY EXAMINATION PRIMARY 6

Name :	(	)
Class : Primary 6/	-	
Date : 20 August 2024		
BOOKLET B		

12 Questions 44 Marks

In this booklet, you should have the following:

a. Page <u>23</u> to Page <u>38</u>

b. Questions 29 to 40

#### **MARKS**

IRE VI VO	OBTAINED	POSSIBLE
BOOKLET A		56
BOOKLET B		44
TOTAL		100

Parent's Signatu	ire :	
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## Answer all the questions in the spaces provided.

- 29 Bees are commonly found near flowering plants. They help flowering plants reproduce in a process where substance G is transferred from an anther to a stigma of a flower.
- (a) Name this process and substance G. (1m)

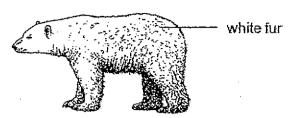
Process:	
Substance G:	
	to the above the in the

Tony observed two flowers, H and J, and recorded his observations in the table below.

Flower	Н	J .	
Colour of petal	Bright	Dull	
Size of petal	Larger	Smaller	
Stigma and anther	Stigma and anther are within petal	Stigma and anther are hanging outside petal	

(b)	Based on Tony's observation, Explain your answer. (2m)	which	flower	will	have	more	bees	visiting	it?
			***************************************	# .E +	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				

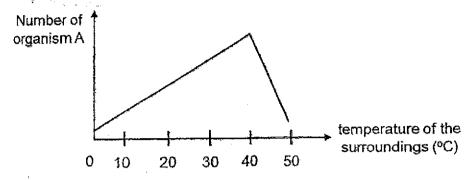
30 The picture below shows a polar bear.



Polar bears have white fur and are found in the Arctic region. They swim in the sea to look for food. After some time, they need to get out of the water to breathe and rest on the ice before entering the water again.

Inuka, a polar bear in Singapore Zoo, was found to have green fur instead of the usual white fur that polar bears have. Scientists have concluded that organism A grows on the fur of polar bears to make them appear green.

The graph below shows the number of organism A at different temperatures.



(c) Based on the graph, describe the relationship between the temperature of the surroundings and the number of organism A. (1m)

The table below shows the average temperature of the surroundings in the Arctic region and Singapore.

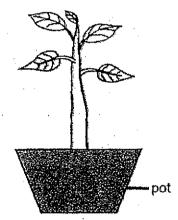
Country	Average temperature of the surroundings (°C)
Arctic region	2
Singapore	36

(d) According to the table above, explain why Inuka's fur is green (1m)



- 31 The air around us is made up of different types of gases.
- (a) State the part of the plant which takes in oxygen and gives out carbon dioxide. (1m)

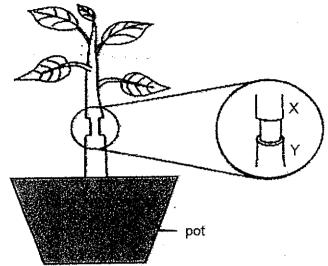
David has a potted plant as shown below.



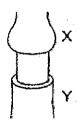
(b) What is the plant transport system made up of? (1m)



David then removed the outer ring of the stem between positions X and Y of a plant as shown in the diagram below. The food-carrying tube was removed.

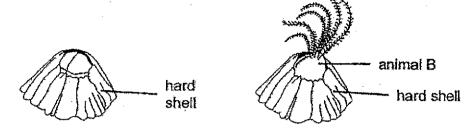


After a few weeks, he noticed that the stem at position X looked swollen as shown in the diagram below.



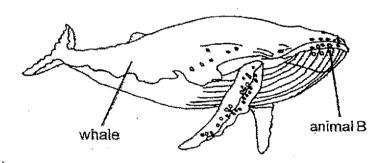
(c)	Explain why the swelling occurred at position X of the stem. (2m)			

32 Animal B cannot move from place to place on its own. It stays in its hard shell while resting. Animal B extends itself out when feeding as seen in the diagram below.



(a) How does animal B protect itself from predators? (2m)

The diagram below shows animal B attaching itself onto a whale. Animal B gets carried to other places without using much energy.

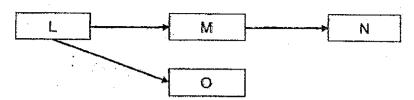


(b) How does attaching itself to a whale benefit animal B? Explain your answer.(1m)



	Despite its large size, a whate is able to move quickly in the water.
	Being mammals, whales have to rise to the surface of the ocean to take in oxygen.
	Due to human activities, the number of ships that cross the ocean has significantly increased.
(c)	Name a structural adaptation of a whale which allows it to move quickly in the water. (1m)
(d)	Suggest how the increase in the number of ships on the ocean affects the survival of whales. (1m)

33 The food web below shows the relationship among the organisms, L; M, N and O, that live in the same community.



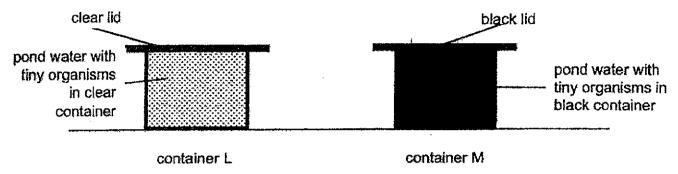
(a)	Suggest one benefit that organism L provides directly to organism N. (1m)

Karen introduced organism P into the habitat. Organism P feeds on organism M and N.

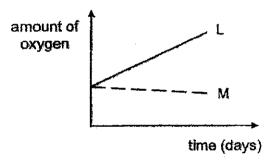
(b) Based on the information above, will the population size of organism O increase or decrease? Give a reason for your answer. (2m)



34 Cadence placed the same amount of pond water which contained tiny organisms into two identical glass containers, L and M. She painted container M black as shown in the diagram below.



She placed both containers at the same place under bright light. She measured the amount of oxygen in each container daily. Her results are shown in the graph below.



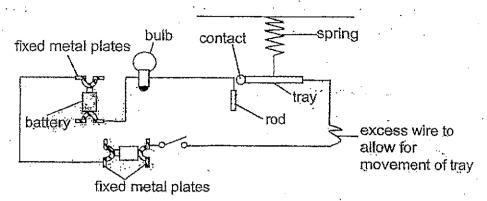
(a) Describe the change in the amount of oxygen in container M. Explain this change. (1m)

(b) Cadence concluded that the cells of the tiny organisms in the pond water contained chlorophyll.

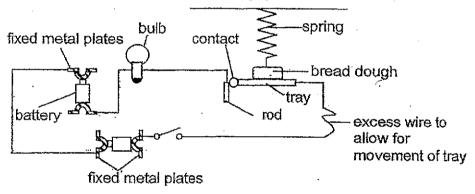
Is her conclusion correct? Explain your answer. (2m)



.35 Kenny designed a system to alert bakers on the mass of the bread dough used.



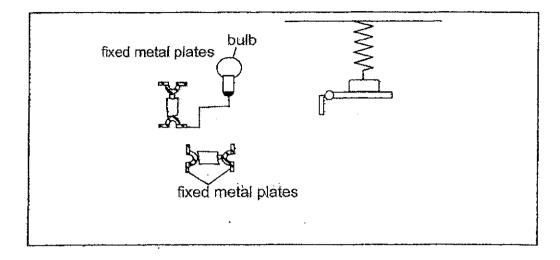
The bread dough is placed on the tray and the bulb will light up if it is within a mass of 5 to 8 units.



(a) What type of material should be used for the tray so that the system can work? Explain your answer. (1m)



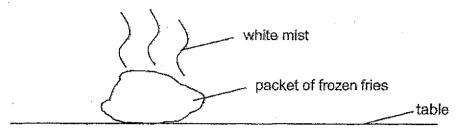
(b) When he closed the switch, the bulb did not light up even though the mass of the bread dough was 6 units. Complete the circuit below to correct his mistake(s). (2m)



(c) Explain why the bulb will light up when the switch is closed and a piece of bread dough with mass 6 units is placed on the tray. (1m)

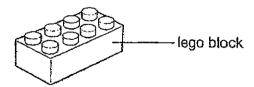


36 Yvette took out a large packet of frozen french fries from the freezer and left them on her kitchen table. She observed some white mist in the air around the packet of french fries after some time.



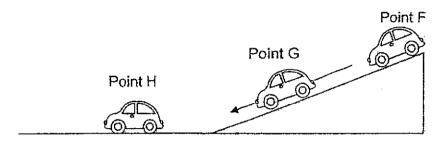
(a) Explain how the white mist was formed, (2m)

- (b) The white mist disappears after a white. Explain why. (1m)
- (c) Yvette wanted to pack the french fries into containers. Describe one way to find the volume inside the container. (1m)
- (d) The volume of the container is 100 cm<sup>3</sup>. Yvette was then given some lego blocks. Each lego block has a volume of 5 cm<sup>3</sup>.



Explain, using properties of matter, why Yvette cannot put all 20 pieces of lego blocks into the container. (1m)

37 Muthu and Arthur wanted to investigate how the mass of a toy car affects the distance moved by it. They released a toy car from a slope at the same point and measured the distance moved by the car on the flat ground. The length of the car is 4 cm.



They repeated this experiment using the same slope and a toy car of similar size. Their results are shown in the table below.

1	Muthu	Arthur
Distance moved by car (cm)	5	9

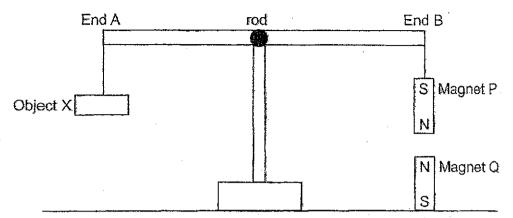
- (a) Given that there was no reading error, explain why Muthu and Arthur obtained different results for the distance moved by the car. (1m)
- (b) The bar graph shows the amount of gravitational force acting on the toy car at point G. Complete the graphs for the amount of gravitational force acting on the toy car at points F and H. (1m)

amount of gravitational force

(units)

points

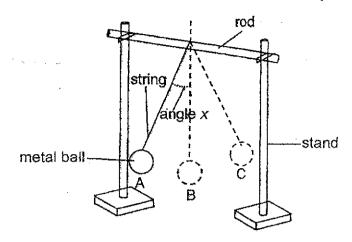
38 Leela set up an experiment as shown below. She observed that the rod is balanced in her experiment.



- (a) What is the property of the magnets that caused the rod to be balanced? (1m)
- (b) Compare the masses of object X and magnet P. (1m)
- (c) Leela replaced magnet P with an iron rod of the same mass. Describe and explain what happens to the rod. (1m)
- (d) State another material that will cause the same effect as the iron rod. (1m)



39 Ahmad set up an experiment to investigate how angle x, the angle at which a metal ball is released, affects the time taken for one complete swing.



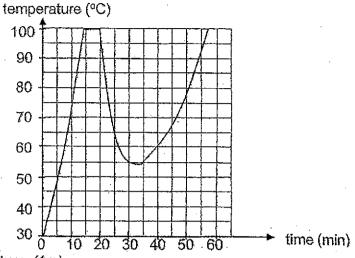
He released the metal ball gently at A. There was no wind. The metal ball made one complete swing as it moved from A to C and back to A. His results are shown below.

	angle x (°)	time for ten complete swings (s)
r	10	14.2
	15	13.9
	20	14.1
Γ	25	13.7

- (a) Based on his results above, how does the angle x affect the time taken for one complete swing? (1m)
- (b) Explain why the metal ball was unable to reach the same position after swinging from A to C and back to A. (1m)
- (c) Suggest one improvement to the experiment to obtain more accurate results. (1m)



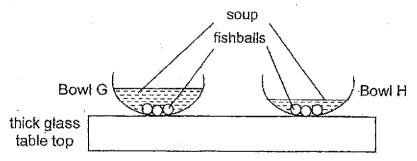
Sylvia boiled some water in a pot on a stove. She wanted to cook some fishballs that she just took out from the refrigerator. When the water had boiled, she added the fishballs into the pot. She measured the temperature of the water for 60 minutes and recorded her results below.



(a) State what is temperature. (1m)

(b) State the time Sylvia added the fishballs into her pot. (1m)

After the fishballs were cooked, Sylvia scooped 3 fishballs and some soup from the pot into two identical bowls, G and H, as shown below.



(c) In which bowl, G or H, would the fishball cool down faster? Why? (1m)

(d) The table top cracked after some time. Explain why. (1m)

### RED SWASTIKA SCHOOL P6 SCIENCE Prelim 2024 Answer Key

## Section A: Multiple Choice Questions (MCQ) (56 marks)

### 28 Questions, 2 marks each

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

Qn.	Answer	Mark
	Process: Pollination	1m
29a	Substance G: Pollen grain/ pollen	erery er
29b	Flower H.	2m
	Flower H is brighter in colour and has larger petals	November 1
	Thus, bees will be more attracted to flower H.	
30a	Polar bears have lungs/do not have gills	1m
30b	Polar bears <u>have hair or fur (</u> as their outer covering). OR	**************************************
	Polar bears provide milk to their young. OR	
	Polar bears give birth to their young alive	
30c	As the temperature of the surroundings increase from 0 – 40°C, the	1m
	number of organism A increases.	
	As the temperature of the surroundings increase from 40 – 50°C, the	
	number of organism A decreases.	
30d	The average temperature of Singapore is higher than in the Arctic	1m
	region. Thus, the number of organism A growing on Inuka's fur is higher	

31a	Tiny openings in the leaves/ stomata/ leaves	1m
31b	Water-carrying tubes and food-carrying tubes	1 m
31c	Since the food-carrying tubes were removed, food made in the leaves	2m
	cannot be transported to the roots/ accumulated at X/ cannot be	اللافات المراقع
	transported to Y	
32a	Animal B can hide in its hard shell to prevent predators from spotting/	2m
201 201 211 211	seeing and eating it	
32b	Animal B can move to a place which is richer in food.	1m
32c	Developed fins/ Streamlined body shape	1m
32d	The whales might hit the ships (when they surface) and get injured.	1m
33a	Organism L can <u>photosynthesise</u> and <u>provide oxygen</u> for organism N,	1m
33b	Population size of O will increase.	2m
tyráld. T	A decrease in population of M will lead to an increase in population of L	
	as there is less Meating L. Thus, there will be more of L for O to eat.	
	With more food, population size of O will increase.	
34a	The amount of oxygen <u>decreased in container M</u> . The tiny organisms	1m
# 144 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(respire) and take in the oxygen in the water.	
34b	Yes, her conclusion is correct.	2m
	The tiny organisms could <u>trap / receive light</u> and <u>make their own food/</u>	
	photosynthesise to produce oxygen. Thus, the amount of oxygen	
	increased.	Access (Constitution of the Constitution of th

35a	Metal. Metal is an electrical conductor/ electric current can flow through.	1m
35b	<ul> <li>Key concept:</li> <li>Batteries need to connected from the positive to negative terminal</li> <li>Bulbs need to be connected to the metal tip and metal casing</li> </ul>	2m
35c	A closed circuit is formed and electricity can flow through the circuit.	100
330	A closed circuit is formed and electricity carr now through the circuit.	1m
36a	Frozen french fries cooled the surrounding air. Warmer water vapour in the surrounding air came into contact with the cooler air. The warmer water vapour lost heat and condensed into tiny water droplets in the air.	
36b	The water droplets gained heat from the surroundings and evaporated.	1m
36c	Pour water into the container to its brim/ full. Measure the volume of water using a measuring cylinder.	1m
36d	The lego blocks had a <u>definite shape</u> and was unable to fit into the container <u>without leaving air spaces/gaps in between them</u> .	1m
37a	They measured the distance from the bottom of the slope to different points of the car.	1m

37b	Key concept. Amount of gravitational force remains the same at different	1m
	positions	A Through the state of the stat
13.00 10.00 10.00	amount of gravitational	
	force (units)	
raine de la companya	Same height	
	F G H	
38a	Magnets <u>repel each other</u> when their <u>like poles</u> are facing each other.	1m
38b	Magnet P has more mass / is heavier than object X. OR	1m
	Object X has less mass / is lighter than magnet P.	
e de Constantino de la		and the control of
38c	The rod will tilt downwards towards end B. Iron is a magnetic material and	1m
	will be attracted to magnet Q.	
38d	Steel, nickel or cobalt	1m
39a	Angle x does not affect the time taken for one complete swing.	1m
		and the state of t
39b	Some of the energy is converted to heat and sound and there was not	1m
	enough energy converted to potential energy.	
39c	Take more readings and calculate the average for each value of angle x.	1m
396	Take more readilities and calculate the average lot each value of alligle X.	1111 
40a	Temperature is a measure/measurement of how hot or cold an object is.	1m
40b	20 minutes	1m
טטר		
40c	Bowl H. There was less soup in Bowl H and hence, there was less heat.	1m
700	DOWN II. THOSE WAS 1653 BOOK II SOME II BOOK II WAS A REAL OF THE PARTY OF THE PART	
40d	The top of the glass gained heat faster from the bottom of the bowl. There	1m
<del>1</del> 00	was uneven expansion/ the top expanded faster than the bottom in the	
	glass.	F
	Alaba.	