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Class:	Primary 6	- 19	· .		

### CHIJ ST NICHOLAS GIRLS' SCHOOL



# Primary 6 Preliminary Examination SCIENCE

**BOOKLET A** 

22 August 2019

Total Time for Booklet A and B: 1 hour 45 minutes

28 questions 56 marks

Do not open this booklet until you are told to do so. Follow all instructions carefully.

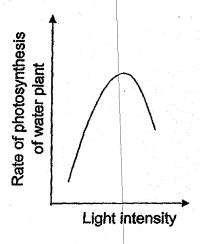
Answer all questions.

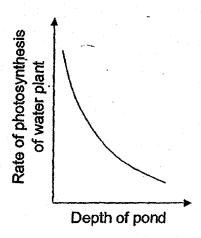
This booklet consists of 21 printed pages.

#### Section A (28 x 2 marks = 56 marks)

For each question from 1 to 28, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet provided.

1. The two graphs below show how the light intensity and the depth of the pond affect the rate of photosynthesis of the submerged water plants.





Based on the graphs above, which one of the following statements is correct?

- (1) The light intensity does not affect the rate of photosynthesis.
- (2) The rate of photosynthesis increases as the light intensity increases.
- (3) The rate of photosynthesis does not depend on the depth of the pond.
- (4) The lower the depth of the pond, the higher the rate of photosynthesis.
- 2. Which one of the following is not a fossil fuel?
  - (1) coal
  - (2) charcoal
  - (3) petroleum
  - (4) natural gas

3. The table below shows the stages of development of a fertilized human egg.

Period	Stages				
End of 1st week	Fertilized egg implants itself in the womb				
End of 4th week	nd of 4th week Brain, spinal cord and nervous system are forme				
End of 8th week	week Face and limbs are visible				
Around 12th week	Foetus starts to move				
End of 16th week	Entire body parts are formed				
End of 28th week Head and body are proportionate					
End of 38th week	Foetus is ready to be born				

From the table above, when is the earliest time the parents are able to find out the gender of their baby?

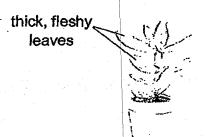
- (1) After 1st week
- (2) After 8th week
- (3) After 16th week
- (4) After 38th week
- 4. Reforestation is a process of replanting an area with trees. Which of the following are the benefits of reforestation?
  - A More soil would be eroded.
  - B More oxygen would be released into the air.
  - C More carbon dioxide would be released into the air.
  - D More food and shelter would be available for the animals.
  - (1) A and B only
  - (2) C and D only
  - (3) B and D only
  - (4) A, B, C and D

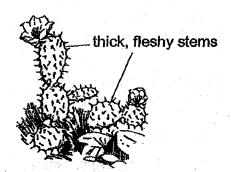
- 5. F, G, H, J and K are five organisms living in a community. The food relationships between the five organisms are stated below:
  - Organism K feeds on Organism J.
  - Organism F and J feed on Organism H.
  - Organism G feeds on Organisms F and H.

Which one of the following is correct?

	Producer(s)	Plant-eater(s)	Animal-eater(s)	Plant-and-animal eater(s)
(1)	G	F	K and J	Н
(2)	F	J	G	H and K
(3)	H	J and F	K	G
(4)	G and K	Н	F	J

6. The picture below shows the structural adaptations of two plants.





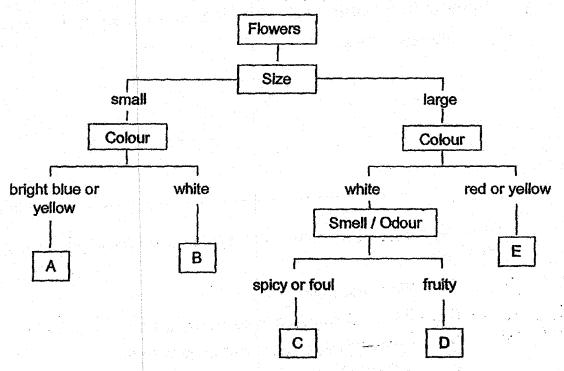
Which one of the following best explains the function of these adaptations?

- (1) Adaptation for pollination.
- (2) Adaptation for reproduction.
- (3) Adaptation for water retention.
- (4) Adaptation for getting sunlight.

7. The table below shows the characteristics of some flowers which attract specific animals.

Animai	The characteristics of flowers that mainly attract the animal			
	Size	Colour	Smell / Odour	
moth	small	white	<del> </del>	
beetle	large	white -	spicy or foul	
bee	small	bright blue or yellow		
bird	large	red or yellow	<b>—</b>	
bat	large	white	fruity	

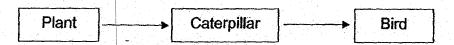
The chart below classifies five flowers A, B, C, D and E.



What animals would be attracted to flowers B and D respectively?

	Flower B	Flower D
(1)	bird	beetle
(2)	moth	bat
(3)	bat .	bird
(4)	moth	beetle

8. Study the food chain shown below.

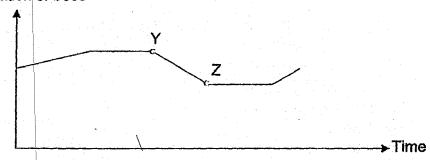


What is the main source of energy for the food chain?

- (1) Sun
- (2) Plant
- (3) Water
- (4) Carbon dioxide

9. The graph below shows the population of bees in a community over a period of time.

Population of bees



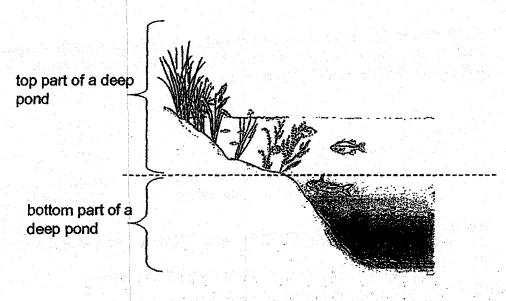
Which of the following explains the change in the population of bees shown by YZ in the graph?

- A There was a drought.
- B Butterflies were introduced to the habitat.
- C More land was used for building of houses.
- D A disease had infected on some of the flowering plants.
- (1) A and B only
- (2) C and D only
- (3) B and D only
- (4) A, B, C and D

10. Which one of the following adaptive features of the organisms is **incorrectly** matched to its function?

	Organism	Adaptive feature	Function of adaptive feature
(1)	Owl	night vision	to be able to hunt at night
(2)	Fish	streamlined body	to be able to swim fast in water
(3)	Penguin	huddle together	to keep its body warm
(4)	Frog	webbed feet	to grip onto its prey

11. The diagram below shows the cross-section of a deep pond.



There are more aquatic plants found at the top part of the deep pond. What is the main reason for such an observation?

- (1) The aquatic plants can get sufficient nutrients to grow well.
- (2) The aquatic plants can absorb more sunlight for photosynthesis.
- (3) The aquatic plants can take in oxygen from the air above the water.
- (4) The aquatic plants can provide shade and shelter for the aquatic animals living in the pond.

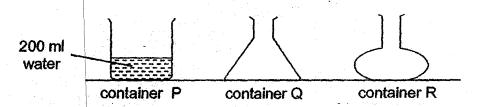
12. Study the diagram below.

carbon dioxide and water vapour breathed out

mineral salts from animal waste

Which of the following substances will be returned to the environment and be recycled?

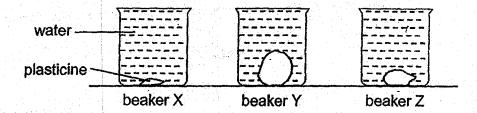
- (1) Mineral salts only.
- (2) Mineral salts and water only.
- (3) Carbon dioxide and mineral salts only.
- (4) Carbon dioxide, mineral salts and water.
- 13. Jody poured 200 ml of water into container P as shown in the diagram below. She then poured all the water from container P to container Q. All the water was then poured out from container Q to container R.



Which of the following best describes what Jody was trying to find out?

- (1) She was trying to find out if water has definite mass.
- (2) She was trying to find out if water has a definite shape.
- (3) She was trying to find out if water has a definite volume.
- (4) She was trying to find out if water has definite mass and shape.

14. The diagram below shows three identical beakers X, Y and Z. Three pieces of plasticine of different sizes were placed into the beakers. The beakers were then filled to the brim with water.



Which one of the following shows the most likely amount of water added into each beaker?

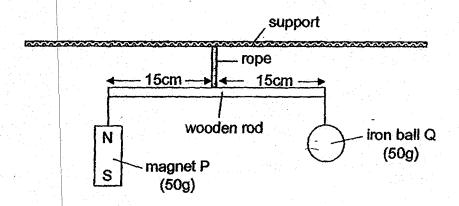
		Amount of water (ml)			
	X	Y	Z		
(1)	260	480	390		
(2)	480	390	260		
(3)	480	260	390		
(4)	390	480	260		

15. Mei Ling wanted to investigate whether the size of a magnet affects the greatest distance it can attract a paper clip.

Which of the following variables should she keep constant?

- A Size of magnet
- B Type of magnet
- C Size of paper clip
- D Type of paper clip
- E Distance between magnet and paper clip
- (1) A only
- (2) B, C and D only
- (3) A, B, D and E only
- (4) B, C, D and E only

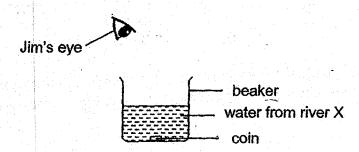
16. The diagram below shows a wooden rod with a magnet P and iron ball Q hanging from a rope.



Which one of the following statements is false?

- (1) When the north pole of another magnet is placed under magnet P, the wooden rod will tilt towards magnet P.
- (2) When the north pole of another magnet is placed under iron ball Q, the wooden rod will tilt towards magnet P.
- (3) When the south pole of another magnet is placed under magnet P, the wooden rod will tilt towards iron ball Q.
- (4) When the south pole of another magnet is placed under iron ball Q, the wooden rod will tilt towards iron ball Q.

17. Jim placed a coin at the bottom of a beaker as shown in the diagram below. He then poured some water from river X into the beaker slowly and observed the coin from above the beaker. He stopped pouring when he could not see the coin clearly and recorded the amount of water in the beaker.



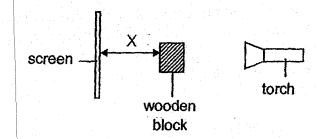
He repeated the same experiment with water from rivers Y and Z. The table below shows the results.

	Amount of water in the beaker ( ml )
River X	250
River Y	160
River Z	370

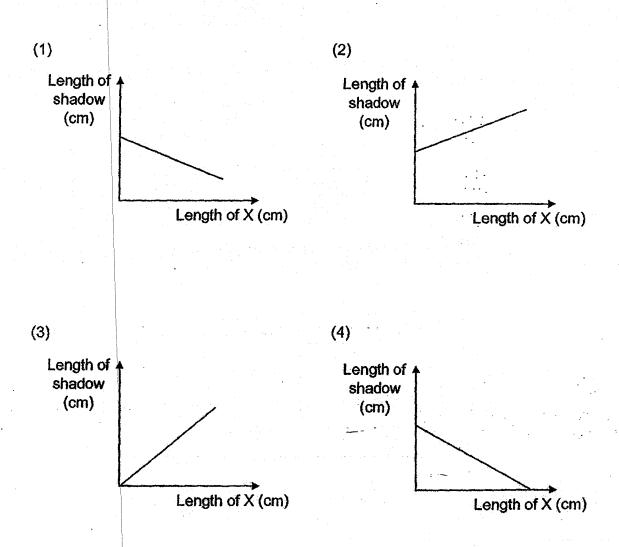
Based on Jim's results, which of the following shows the clarity of water from rivers X, Y and Z in the correct order?

	Clearest → Least Clear				
(1)	Х	Y	Z		
(2)	Υ	X	Z		
(3)	Z	Х	Υ		
(4)	Z	Y	X		

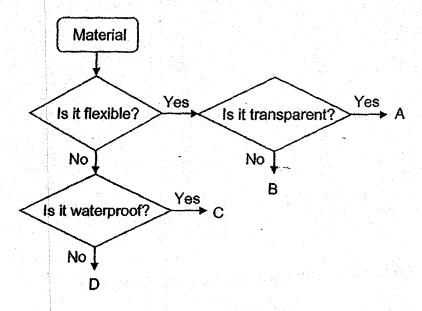
#### 18. Study the set-up below.



Based on the diagram above, which one of the following graphs shows the relationship between X and the length of the shadow observed on the screen?



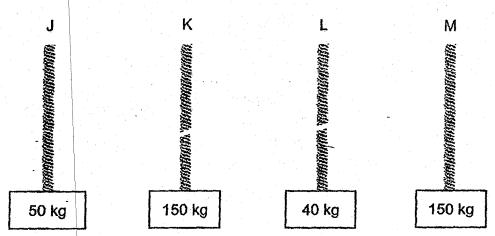
#### 19. Study the flow chart below.



Which one of the following best represents A, B, C and D?

	A	В	С	D
(1)	styrofoam board	t-shirt	metal key	glass cup
(2)	wooden plank	metal bowl	rubber band	plastic folder
(3)	plastic folder	rubber band	metal bowl	wooden plank
(4)	cellophane paper	coloured paper	metal key	styrofoam board

20. Four masses were tied to four ropes made from different materials J, K, L and M as shown in the diagram below. The ropes were all of similar thickness. When the masses were lifted by the ropes, ropes K and L broke.



Which of the following statements is definitely true?

- A Material L is the weakest.
  - B Material M is the strongest.
  - C Material J is stronger than material L.
- D Material K is weaker than material M.
- (1) A and B only
- (2) C and D only
- (3) A, C and D only
- (4) A, B, C and D

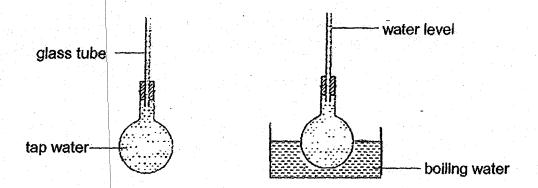
21. A study was conducted to identify the factors that affect the evaporation rate of some liquids. The table below shows the results of the investigation.

Type of liquid	Exposed surface area (cm²)		Amount evaporated after 1 week of exposure (ml)			
		Trial 1	Trial 2	Trial 3	Average	
Water	12	40	9.3	9.2	8.8	9.1
Water	8	60	6.3	5.9	6.2	6.1
Water	4	80	2.8	3.1	2.9	2.9
Alcohol	4	80	9.1	8:8	8.9	8.9
Alcohol	8	80	18.6	18.1	17.8	18.2
Orange Juice	4	80	2.7	3.2	3.2	3.0

Based on the data above, which of the following statements is not correct?

- (1) The evaporation rate for water is less than that for alcohol.
- (2) The larger the amounts of water the higher the evaporation rate.
- (3) Water has approximately the same evaporation rate as orange juice.
- (4) The larger exposed surface areas of water had greater evaporation rates.

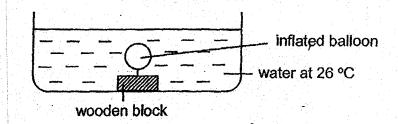
22. When John put the flask of tap water into a container of boiling water, he observed that the water level in the glass tube fell first before it rose.



Which one of the following best explains his observation?

- (1) Tap water is a good conductor of heat.
- (2) Glass is a poorer conductor of heat than tap water.
- (3) The flask expands before the water in the flask expands.
- (4) The flask contracts causing the water level in the tube to fall.

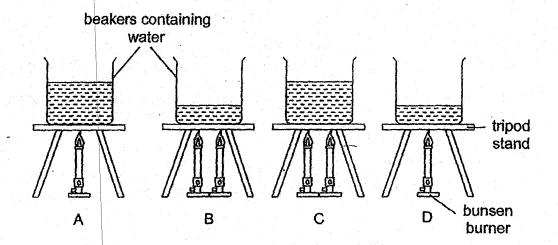
23. An inflated balloon was attached to a wooden block and placed in a container of water at 26 °C as shown in the diagram below.



Which one of the following shows the most likely observation and corresponding explanation when the water in the container was heated to 65 °C?

	Observation(s)	Explanation
(1)	The balloon remained the same size.	Heat did not cause any visible change in the set-up.
(2)	The balloon became smaller.	Some air had escaped from the balloon causing it to reduce in size.
(3)	The balloon became bigger.	Some air from the water had entered the balloon causing it to expand.
(4)	The balloon became bigger and the water level in the container increased.	Both the air in the balloon and the water in the container gained heat and expanded.

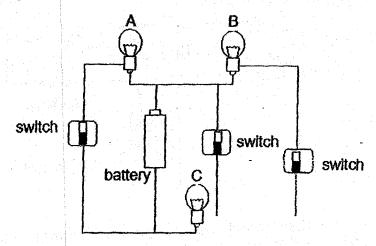
24. Benjamin carried out an experiment using four set-ups A, B, C and D as shown below. The water in all the beakers were at room temperature at first.



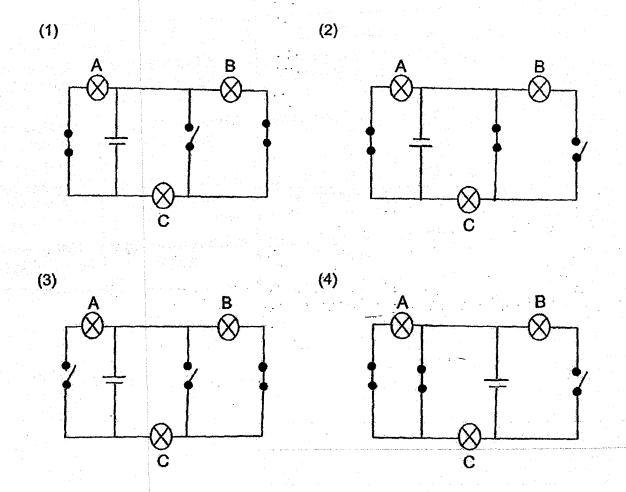
In which set-up would the temperature of water be the lowest after 10 minutes of heating?

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

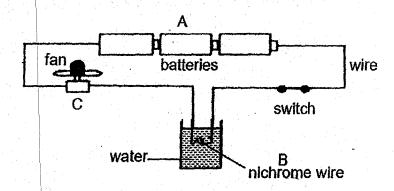
### 25. The diagram below shows a circuit with three similar bulbs A, B and C.



If only bulbs B and C are lit, which one of the following circuit diagrams correctly represents the circuit above?



26. A fan and a container of water were connected to a circuit as shown below.

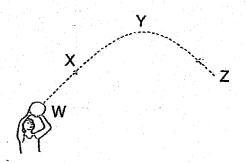


When the switch was closed, the fan started moving and the water in the container was slowly heated up.

What were the main energy changes that had taken place at each point labelled A to C?

		Α	В	С
(1)		cal potential energy electrical energy	Electrical energy -> light energy	Kinetic energy -> sound energy
(2)	Electric	al energy → kinetic energy	Electrical energy → light energy	Electrical energy -> sound energy
(3)		cal potential energy electrical energy	Electrical energy → heat energy	Electrical energy -> kinetic energy
(4)	Electric	al energy → kinetic energy	Heat energy → light energy	KInetic energy → heat + sound energy

27. The diagram below shows a man throwing a ball.



Which of the following statements is / are true?

- A At point W, there is no force acting on the ball.
- B At point X, ball slows down because of gravity.
- C At point Y, the ball starts to drop as no force is acting on it.
- D At point Z, the ball drops further as frictional force is acting on it.
- (1) B only
- (2) A and B only
- (3) C and D only
- (4) A, B and D only
- 28. The diagram below shows a helicopter during the different stages of its flight.



At which stage(s) does gravity act on the helicopter?

- (1) Landing only
- (2) Taking off and flying only
- (3) Taking off and landing only
- (4) Taking off, flying and landing

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#### CHIJ ST NICHOLAS GIRLS' SCHOOL



## **Primary 6**

# Preliminary Examination SCIENCE

**BOOKLET B** 

22 August 2019

Total Time for Booklet A and B: 1 hour 45 minutes

13 questions 44 marks

Do not open this booklet until you are told to do so. Follow all instructions carefully.

Answer all questions.

This paper consists of 15 printed pages.

Booklet A 56

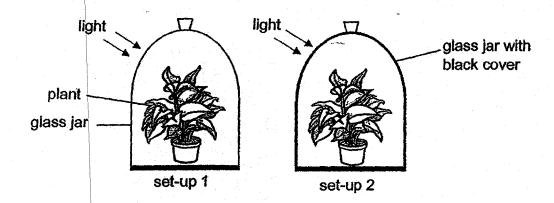
Booklet B 44

Total 100

**Parent's Signature** 

For questions 29 t	o 41, write your a	answers in this bool	klet.	
The number of ma	rks available is st	nown in the brackets	[ ] at the end of	each question
or part question.				(44 marks)

29. Mary carried out an experiment to find out whether light is needed for photosynthesis.



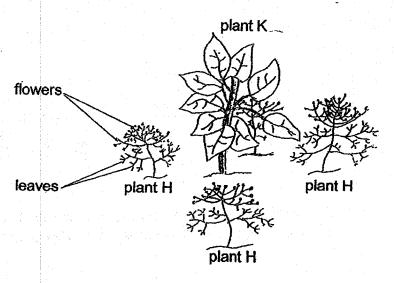
- (a) What is the purpose of set-up 1? [1]
- (b) Based on her experiment, how can Mary confirm that light is needed for photosynthesis? [2]

(c) What is produced during photosynthesis that is needed by the plant? [1]

30.	A gardanar	· oboomed -		i i i i i i i i i i i i i i i i i i i	
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plant K → insect A

The gardener learnt that another insect, M, is a predator of insect A. Insect M also likes to feed on pollen. Using this information, he decided to grow plant H around plant K, as shown below.



Based on the Information above, explain how this planting method allows the gardener to grow plant K without the use of pesticides? [2]

The graph below shows the number of animal F and animal G in a community. 31. 90 80 70 number of animals 60 50 40 30 20 10 0 2005 2001 2003 (a) Animal F and G have a prey-predator relationship. Based on the graph above, which animal is a prey and which is a predator? Prey: Predator: (b) Based on the graph given above, there was a period with very little rainfall. This most likely happened from Other than lack of water for the predator, give another possible reason (c) why with very little rainfall would cause a decrease in the population of the predator. [1]

32.	Halim wanted to conduct an experiment to find out if plastic is ha	armful to the
in de la Magnetia de	environment. He buried a plastic box and a paper box for a month.	Every week,
	Halim dug out the boxes to observe them.	





plastic box

paper box

(a)	Besides the size of the boxes,	state two other	variables	that he	should
	keep the same in order for it to	be a fair test.			[1]

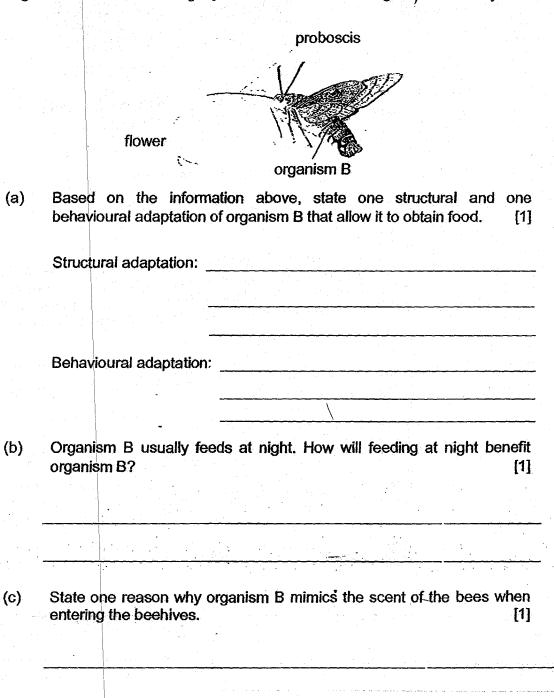
(b) The results of Halim's experiment showed that the plastic box remained the same condition while the paper box had broken down into smaller pieces. Which of the following statements is supported by the results of Halim's experiment? Put a tick in the box next to the correct statement.

[1]

	Statement	Corre	ct
Plastics can kill wildlife	<b>9.</b>		
Plastics cause global	warming.		•
Plastics remain as wa	ste in our environment.		
Plastics release harm	ful gases when they break down.		

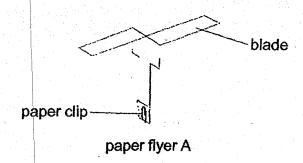
(c)	State one	way	that	we	can	help	to	reduce	plastic	waste	in	oui
	environme					, .		·				[1]

33. The diagram below shows organism B using its long proboscis to obtain nectar from a flower. It will curl up its proboscis when it flies from flower to flower. Other than nectar, organism B also feeds on honey. It will mimic the scent of the bees in order to enter the beehives to consume the honey. It has clawed feet that help it to climb around the beehives easily. When met with predators, organism B will flash its brightly coloured abdomen to frighten them away.



	(d) The forest where organism B lives in is being cleared for build houses. How will this affect the population of Organism B? Exanswer.						
			<del></del>				
	(e)	Deforestation can also lead to global warming. Explain why.	[1]				
			<del></del>				
34.	The c	liagram below shows a table fan.					
	(a)	Complete the conversion of energy when the switch is turned on.	[1]				
	El€	ectrical energy → + +					
		energy energy energ	У				
	(b)	Explain why the fan continued to spin for a while even after the was turned off.	switch [1]				
	en e						
	. <u>-</u>						
	4 5 1 <u>4</u>						

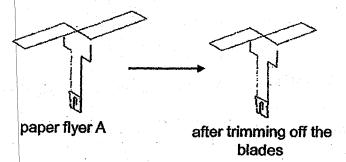
35. Nathan made paper flyer A with a paper clip as shown in the diagram below.



He wanted to find out if the number of paper clips on paper flyer A would affect the time it took to fall to the ground.

(a) What must Nathan measure to help him draw a conclusion? [1]

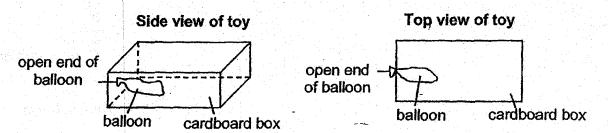
Nathan threw paper flyer A with one paper clip and measured the distance it travelled. He then trimmed off 1 cm from each of the two blades of paper flyer A and measured the distance it travelled when it was thrown from the same height.



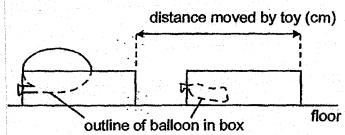
 (b) Would the distance travelled by paper flyer A be affected after the blades were trimmed? Explain your answer.

(c) Name one fruit or seed with a similar structure like paper flyer A. [1]

36. Lennard used an open-top cardboard box and a balloon to make a toy as shown below. He then used it to investigate if the size of the balloon would affect the distance moved by the toy.

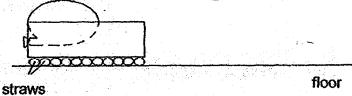


He inflated the balloon with some air before twisting the open end of the balloon and holding it between his fingers. He then placed the toy on the floor and released his grip on the balloon. Immediately, the toy moved a distance away from him. He then measured the distance moved by the toy.



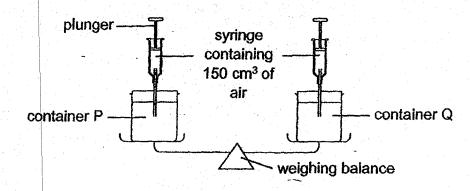
Lennard then inflated the balloon with more air and repeated the experiment. He noted that the toy moved a greater distance.

(a)	What car	n Lennard do to make his exper	imental results more re	liable? [1]
			<u> </u>	
	*		_	
Lenn	ard made	some modifications to his expe	eriment as shown in the	diagram
belov	<b>v.</b>			D. 1
			Management of the Control of the Con	
				•



(b) Would the toy move a shorter or longer distance than before? Explain why. [2]

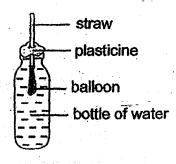
37. Study the set-up below.



(a) What would be observed when 150 cm³ of air was pumped into container Q? [1]

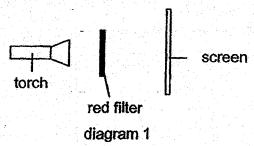
(b) State one property of air demonstrated by the experiment above. [1]

Thomas set up an experiment as shown below.



(c) Thomas tried to inflate the balloon by blowing through the straw. Would the balloon inflate? Give a reason for your answer. [1]

38. Alisha placed a square piece of red filter in front of a torch as shown in diagram 1.



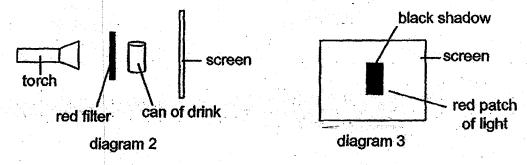
When the torch was switched on, she noted a square patch of light on the screen. She then repeated the same experiment with blue and green filters.

Colour of filter used	Colour of square patch of light
red	red
blue	blue
green	green

(a) What was the aim of Alisha's experiment?

[1]

Alisha then placed a can of drink behind a red filter as shown in diagram 2.



(b) Diagram 3 shows what she saw on the screen when the torch was switched on. Give an explanation for Alisha's observations in diagram 3.

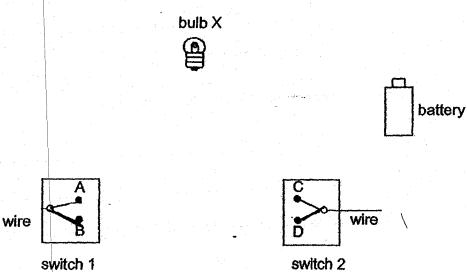
[2]

39. Wen Xiong wanted to set up a circuit to light up a hall using two special switches. Switch 1 can be turned to positions A or B and switch 2 can be turned to positions C or D.

He set up the circuit so that the bulb will be lit as described in the table below.

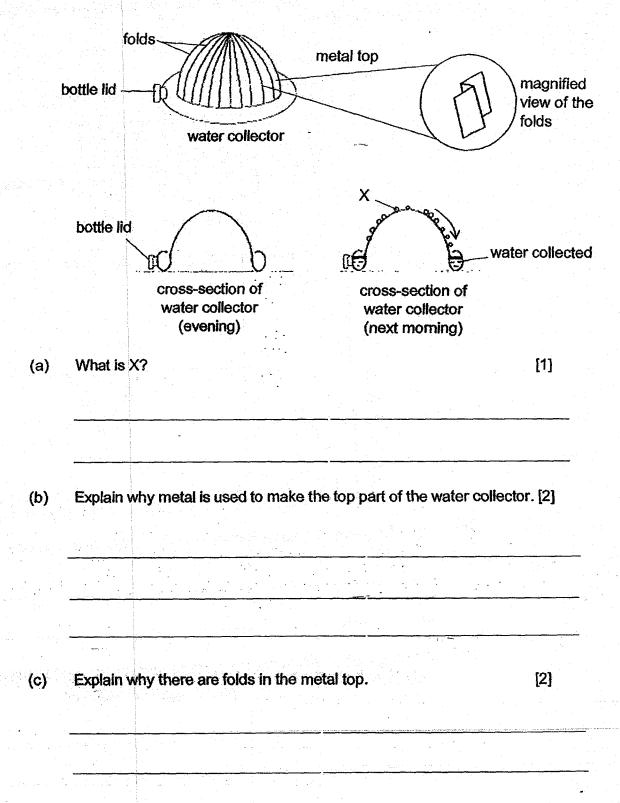
	Position		
Swit	ch 1	Switch 2	Bulb X is lit
P		С	Yes
A		D	Yes
E		D	No
Ε		C	No

(a) The diagram below shows part of the circuit. Complete the circuit so that it will work as described. [2]

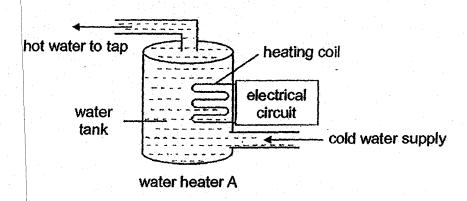


(b) If one more bulb is added to the circuit in series, how would it affect the brightness of bulb X? [1]

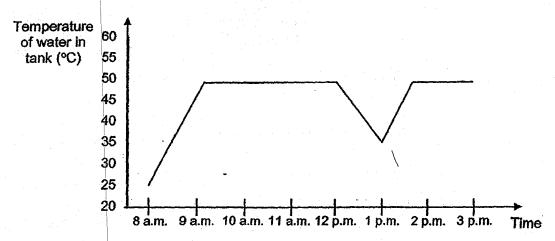
40. Hussein used a water collector to collect some water while on a trip to a desert. He placed the water collector in an open area in the evening and collected the water in the morning.



41. The diagram below shows water heater A. The heating coil inside the tank is able to heat the water up to a temperature of 49 °C when the heater is turned on. The temperature of the water is then maintained at 49 °C until the heater is switched off. When the hot water tap is turned on, cold water enters the tank to replace the water used.



The graph below shows the temperature of the water in the tank over a period of time.

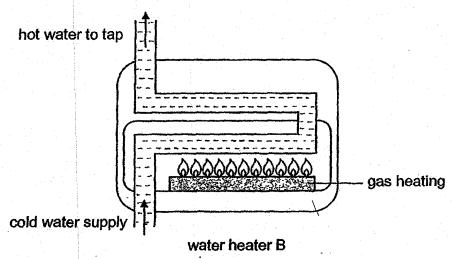


(a) How long does it take for the water in the tank to heat up to 49 °C? [1]

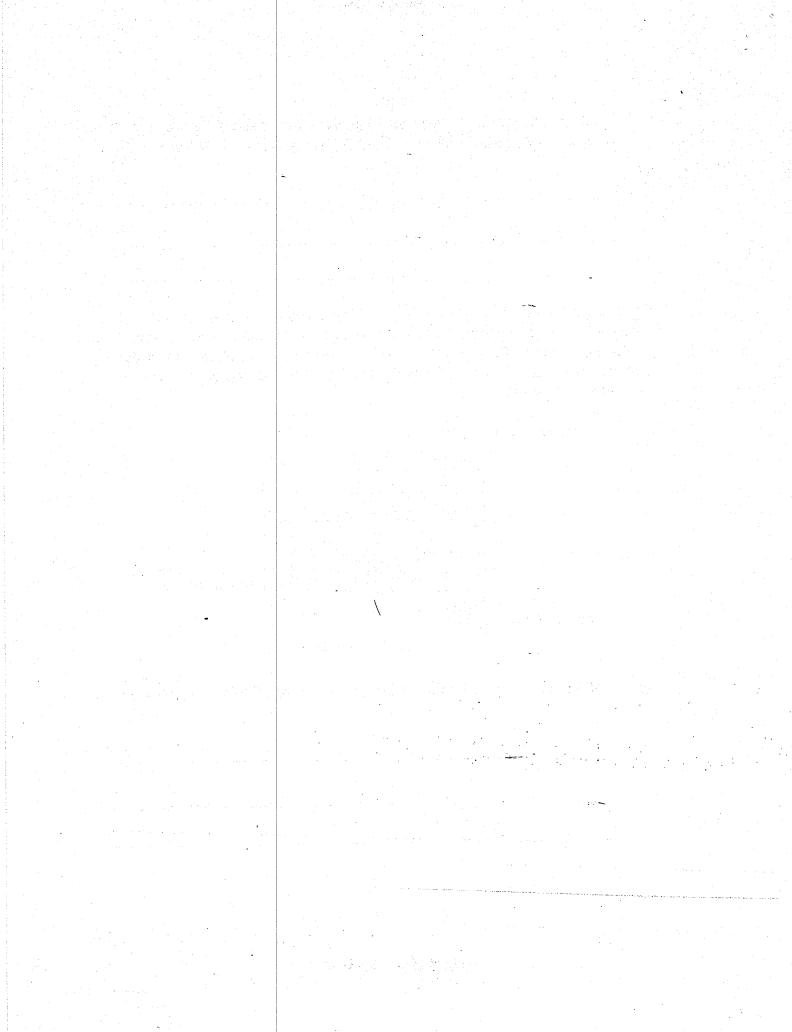
(b) Jia Ming took a bath during the period shown in the graph. Based on the graph above, what time did he probably take his bath? [1]

(c)	While bathing, Jia Ming noticed that the temperature of the water w	as
	not as hot as when he started bathing. Give a reason why this is so.	[1]

The diagram below shows water heater B. This type of water heater does not store water in a tank. When hot water is needed, the heater is switched on and cold water passes through the heater to be warmed up before leaving the heater. The water heater takes about 5 minutes to heat up the water to a temperature of 49 °C.



(a)	wnich wate	r neater A or B is	s more energy	∕saving ⁄⊨xpiain	your choice.
			and the second		[1]
•			• 1	•	



SCHOOL:

CHIJ PRIMARY SCHOOL

LEVEL : SUBJECT :

PRIMARY 6 SCIENCE

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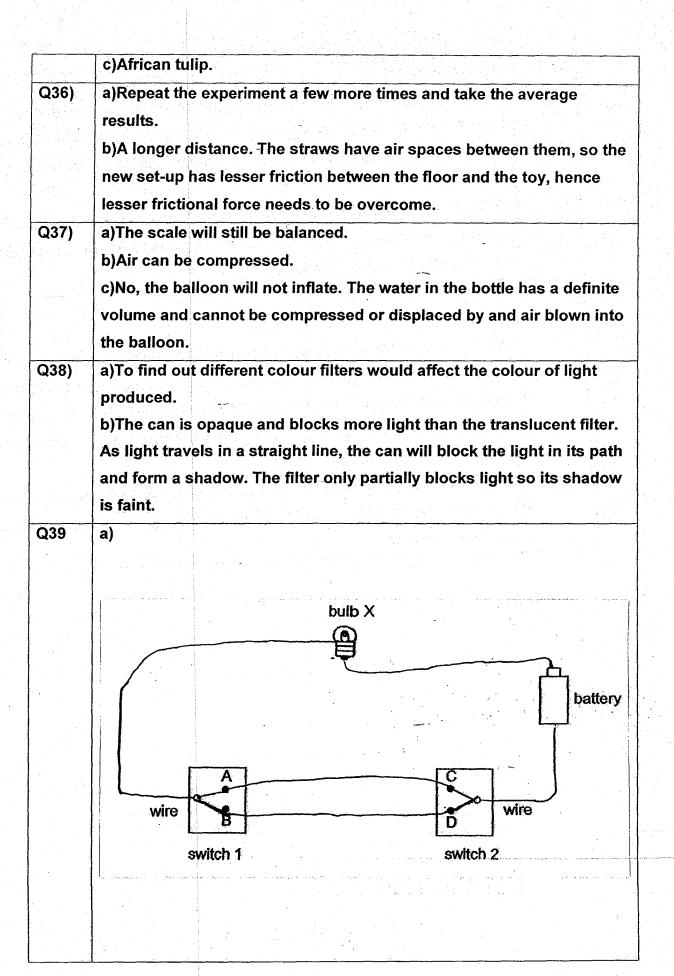
#### SECTION A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	2	3	3	3	3	2	1	4	4
Q 11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
2	4	2	3	2	2	3	2	3	2
Q 21	Q22	Q23	Q24	Q25	Q26	Q27	Q28		<del> </del>
2	3	4	1	3	3	1	4		

#### **SECTION B**

Q29)	a)To act as a control set-up to show that light is needed for
	photosynthesis to take place.
	b)Take a leaf from each set-up and when photosynthesis takes place,
	starch will be present in the leaf. Test the presence of starch by lodine
	test. The leaf in set-up 1 will turn blue-black which shows the
	presence of starch while the leaf in set-up 2 turn yellowish-brown
	which means there is no starch in set-up 2. Therefore, light is needed
	for photosynthesis to take place.
	c)Glucose and oxygen.
Q30)	Insect M will feed on Insect A. The population of insect A will decrease
	and population of K will increase. Insect M will also help to pollinate
	plant K, causing plant K to grow without the use of pesticides.
Q31)	a)Prey: G
	Predator: F
	b)2006 to 2007
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	<u>arangan kan dibingan beranggalan dan mengangan beranggalan kembanan beranggalan beranggalan beranggalan berang</u>
	c)G also needs water to respire and carry out life processes so
	without water, G dies. As the population size of G decreases, lesser
	food is available for F, so the population size of F also decreases.
Q32)	a)i)The type of soil they are buried in.
	ii)The depth of the hole, the boxes are buried.
	b)Plastic remain as waste in our environment.
	c)Use lesser things made from plastic. Instead, use recyclable
	materials such as cloth bags instead of plastic bags.
Q33)	a)Structural adaptation : B has clawed feet that help it climb around
	the beehives easily.
	Behavioural adaptation : B mimics the scent of bees in order to enter
	the beehives to consume the honey.
	b)During feeding at night, organism B will flash its brightly coloured
	abdomen to frighten its predator away. The colours can be seen easily
	at night. Thus, it will be safe to feed at night.
	c)The bees would attack any intruder like B but the bees are fooled by
	B's mimicry of their scent so the bees think B is another bee and will
	not attack.
	d)The population size of B would decrease. When the forest is cleared,
	bees cannot build their beehives and not as many flowers can grow. B
	will have lesser food and no shelter.
	e)When deforestation happen, trees are cut down and lesser trees to
	photosynthesize. When the rate of photosynthesis slows down, more
	carbon dioxide is present in the air, More heat is trapped when there is
	more carbon dioxidé. Thus, causes global warming.
Q34)	a)Electrical energy→Kinetic energy + sound energy + heat energy
	b)The kinetic energy of the blades was still converting into sound and
	heat energy.
Q35)	a)The time taken for the paper flyer A to reach the ground.
	b)The distance travelled by A after the blades were trimmed would be
	shorter. There will be lesser air resistance between the shorter blades
	and the air so gravitational force will overcome frictional force more
	easily, thus A with shorter blades cannot travel as far.
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	b)The brightness of X would decrease.
Q40)	a)Water droplets.
	b)Metal is a good conductor of heat contact , so it would gain heat
	from the surrounding water vapour faster to allow more water vapour
	to process condense into more water droplets so more water is
	produced.
	c)This is so the metal top has more surface area in contact with more
	water vapour in the air so there will be a higher rate of condensation
	and more water will be produced.
Q41)	a)1 hour
	b)At 12p.m.
	c)As hot water leaves the water tank when Jia Ming is bathing, the
	cold water will enter the water tank to fill up the space. It takes time for
	the cold water to gain heat from the heating coil but cold water keeps
	entering the tank when tap is on. So it will not reach 49° C instantly so
	not so hot as when he started bathing.
	d)B. B only takes 5 minutes to heat water up to 49°C whereas A takes
	1 hour and the amount of heated water is finite. The water is heated up
	only when needed.