Index No.



NAN HUA PRIMARY SCHOOL PRELIMINARY EXAMINATION – 2016 PRIMARY 6

SCIENCE

BOOKLET A

30 Multiple Choice Questions (60 marks)

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

INSTRUCTIONS TO CANDIDATES

- 1. Write your name and index number in the space provided.
- 2. Do not turn over the page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Shade your answers in the Optical Answer Sheet (OAS) provided.

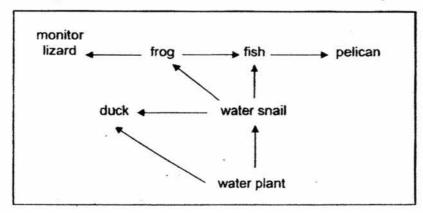
Booklet A	
Packlet D	/ 60
Booklet B	/ 40
Total	/100

Name:	()	Class: P 6
Date: 26 August 2016	Parent's Signature:	

Section A: (30 x 2 marks = 60 marks)

For each question from 1 to 30, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct-oval (1, 2, 3 or 4) on the Optical Answer Sheet.

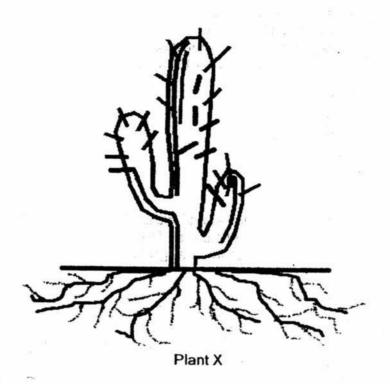
- 1. Which of the following forces are able to act at a distance?
 - A Frictional force
 - B Magnetic force
 - C Gravitational force
 - D Elastic spring force
 - (1) A and B only
 - (2) B and C only
 - (3) C and D only
 - (4) A and D only
- 2. The diagram below shows a food web in a wetland ecosystem.



Based on the given food web above, which of the following is correct?

	Number of organisms		
	Herbivore	Carnivore	Omnivore
(1)	1 -	4	1 .
(2)	1	5	0
(3)	2	4	1 1
(4)	3	2	2

Study the diagram below.

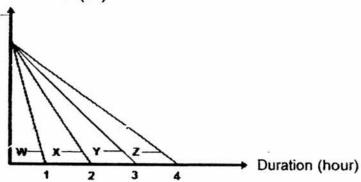


Based on the diagram above, which of the following feature(s) of Plant X enable(s) it to survive in the desert?

- A swollen stem
- B needle-like leaves
- C wide-spread root system
- (1) B only
- (2) C only
- (3) A and B only
- (4) A, B and C

- 4. Which of the following are possible causes of global warming?
 - A Acid rain
 - B Melting of polar ice caps
 - C Flooding of coastal towns
 - D Increased deforestation activities
 - E Increased number of cars on the road
 - (1) B and C only
 - (2) D and E only
 - (3) A, B and C only
 - (4) A, D and E only
- Wan Yi left 4 identical beakers of water, W, X, Y and Z, at different locations under different conditions. The graph below shows how the amount of water in each beaker changed over time.

Amount of water (ml)



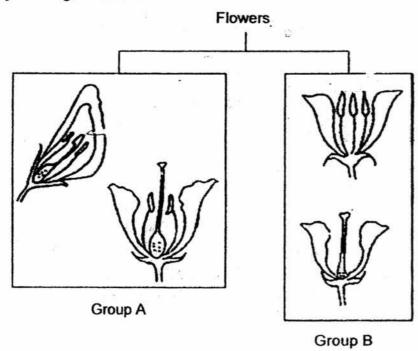
She studied the graph and gave the possible reasons to explain the difference in the time taken for all the water to evaporate.

- A There is wind in the location where Z is placed but not X.
- B The temperature of the surroundings for Y is higher than that of Z.
- C The exposed surface area of the water in W is greater than that in X.
- D The amount of water in W is less than the amount of water in Z at the start of the experiment.

Which of the statement(s) made by Wan Yi is/are possible explanation(s) for the graph above?

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

6. Study the diagram below.



How are the flowers grouped?

Group A	Group B
Insect pollinated	Wind pollinated
Wind pollinated	Insect pollinated
Have either male or female parts	Have both male and female parts
Have both male and female parts	Have either male or female parts

The table below shows the different cell parts of 3 types of cells, A, B and C. A tick (√) indicates the cell part that can be found in each cell.

Cell part	Cell A	Cell B	Cell C
Nucleus	1	1	1
Cell wall	$\sqrt{}$	1	
Chloroplast	1		

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

	Cell A	Cell B	Cell C
(1)	Elodea leaf cell	Animal skin cell	Cactus stem cell
(2)	Balsam leaf cell	Cheek cell	Onion root cell
(3)	Cactus stem cell	Onion root cell	Cheek cell
(4)	Onion root cell	Cactus stem cell	Animal skin cell

8. Fatimah carried out an experiment on 4 different materials. She used 4 beakers of identical size and filled each one with the same amount of water. The temperature of the water in all the beakers was 60°C. She then wrapped each beaker with the 4 different materials respectively.

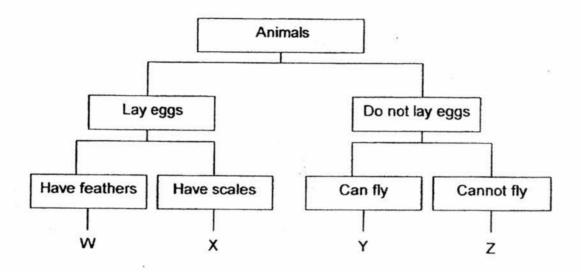
After 10 minutes, she took the temperature of water in each beaker and recorded the results in the table below.

Material used to wrap the beakers	Temperature (°C) after 10 minutes
Α –	45
В	40
С	50
D	55

Which material should Fatimah choose to wrap around blocks of ice to prevent them from melting for the longest possible period of time?

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

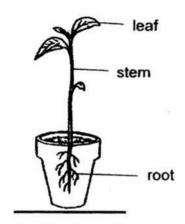
The table below shows how some animals can be classified.



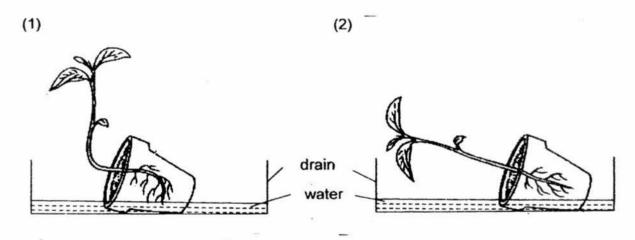
Based on the above classification chart, which of the following statement(s) is/are true?

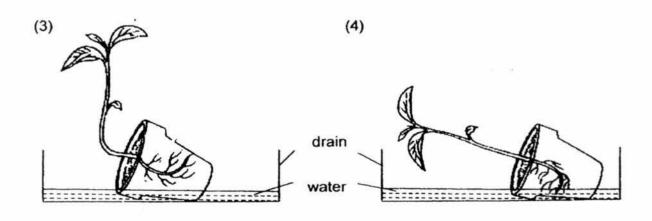
- A Bats can be classified under group Y.
- B Fish can be classified under group X.
- C Penguins can be classified under group Z.
- D Animals in groups W and Y can have the same body covering.
- (1) A only
- (2) A and B only
- (3) B and D only
- (4) C and D only

10. Peter placed a potted plant out in the open as shown below.

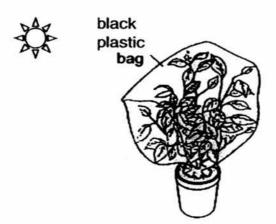


A strong gust of wind knocked the potted plant over and it fell into a small open drain. Which one of the following shows how the plant would grow if it was left in the drain for several weeks?

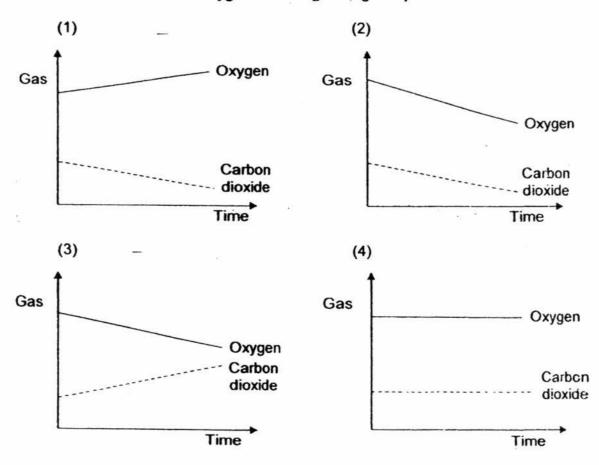




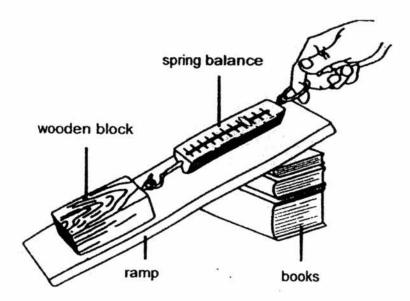
 Susie put a well-watered plant into a black plastic bag. Then she tied the bag with a string and placed it under the Sun for several hours.



Which one of the following graphs shows the changes in the amount of carbon dioxide and oxygen in the bag during that period of time?



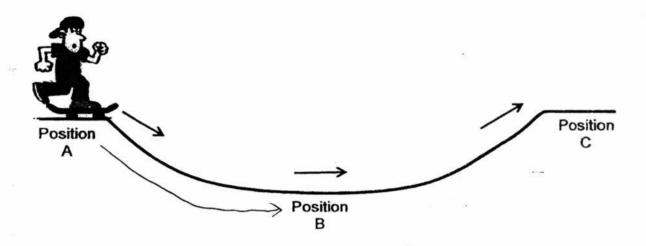
 The diagram below shows a student using a spring balance to pull a wooden block up a ramp that is resting on a stack of books.



Which change would require more force to pull the wooden block up the ramp?

- (1) Apply oil to the wooden block.
- (2) Reduce the mass of the wooden block.
- (3) Glue sandpaper to the surface of the ramp.
- (4) Restack the books so the thinnest book is on the bottom.

13. Ahmad started to skate from position A to B and then to C as shown below.



Which of the following shows the energy conversion when Ahmad skated from A to B?

- (1)
- Kinetic energy → potential energy

 Kinetic energy → potential energy + sound energy + heat (2)
- Potential energy + sound energy + heat energy -> kinetic (3)
- (4) Potential energy --> kinetic energy + sound energy + heat energy

Tammy and her friends counted the organisms that were living in the 14. school garden. They recorded their findings in the table shown below.

Description	Number of organisms
Flowering plants	6
Non-flowering plants	12
Animals with no legs	18
Animals with two legs	7
Animals with six legs	25
Animals with more than six legs	10

Which of the following conclusion(s) can they draw from their findings?

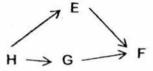
- Α There are 25 insects in the garden.
- B
- There are at least 2 populations of plants.\
 There are 12 populations of non-flowering plants. C
- A only (1)
- C only (2)
- A and B only (3)
- A, B and C

15 Julie observed the food relationships among four organisms, E, F, G and H, which lived in her garden. She recorded information about them in the table below.

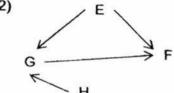
Prey only	Prey and predator	Producer	Predator only
E	G	Н	F

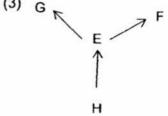
Based only on the above information, which one of the following food webs best describes the food relationships amongst the four organisms?

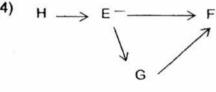
(1)



(2)







Study the data below and answer the following question.

Season	Spring	Summer	Autumn	Winter
Average Temperature / °C	7	20	5	-1
Availability of food	moderate	high	moderate	low
Activity level of the bear	moderate	high	moderate	low

Hibernation is a state of little or no activity. When an organism hibernates, its body temperature is low. They will breathe slowly and have a low heart rate.

The black bears in Northern America will always go into hibernation in winter

What could be a possible reason for such a behavioural adaptation?

- The bears are hiding from their predators. (1)
- (2)There is insufficient food available in winter.
- (3)There are no bears to interact with as it is too cold.
- (4) The bears are trying to attract a mate for reproduction.

17. The table below shows the functions and adaptations of three animals.

Animal	Adaptation	Function
Polar bear	Α	To keep itself warm.
Dolphin	В	To propel itself forward.
Peacock	С	To attract the female during mating.

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

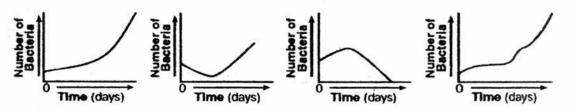
	A	В	С
(1)	layer of fat	tail	colourful feathers
(2)	layer of fat	flippers	clapping its bill
(3)	light colour of fur	tail	colourful feathers
(4)	light colour of fur	flippers	clapping its bill

Read the information below before answering questions 18 and 19.

Some species of bacteria are harmful. Antibiotics are chemicals that kill bacteria. Some bacteria are resistant to antibiotics and are not killed by these chemicals. Over time, the resistant bacteria can reproduce and create populations that are not affected by antibiotics.

The graphs below show the results of an experiment that measured the population of one species of bacteria that had been grown in four containers under identical conditions. Different antibiotics were added to three of the four containers.

Antibiotic A added Antibiotic B added Antibiotic C added No Antibiotic added



- 18. Which conclusion about this species of bacteria is best supported by the information in the graphs?
 - Antibiotics A and B slowed the growth.
 - Antibiotic A continuously slowed the growth.
 - (3) Antibiotic B was least effective in controlling the growth.
 - (4) Antibiotic C was most effective in controlling the growth.
- 19. The control in this experiment is represented by the container with

⁽¹⁾ antibiotic A added

⁽²⁾ antibiotic B added

⁽³⁾ antibiotic C added

⁽⁴⁾ no antibiotic added

20. The water cycle on Earth can take place repeatedly because water Α freezes at 0°C and boils at 100°C B has no definite shape but has a definite volume. C can condense when it comes in contact with a cooler surface D can change from one state to another when it gains or loses heat (1) D only (2)C and D only B and C only (3)A, B and D only (4)21. The diagrams below show tree X planted at two different locations, A and B. River Wind direction Wind direction Direction of river flow Location A Location B Parent Tree X Offspring Based on the diagrams above, the seeds of tree X are most likely dispersed by A wind B water C animal (1) A only B only (2)

C only

A and B only

(3)

(4)

22. Which of the following statement(s) about the human and plant transport systems is/are incorrect?

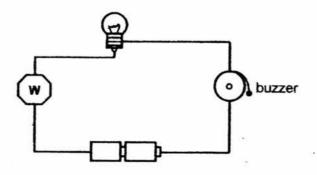
- A human needs an organ to pump blood to transport materials around the body.
- B No organs are needed by a plant to transport materials around the plant.
- C A plant has only one type of tube to transport materials around the plant.
- Only oxygen and digested food are transported around the body of a human.
- (1) C only

31.

14

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

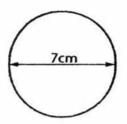
23. The diagram below shows an electric circuit.

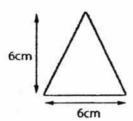


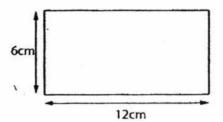
Which of the following items can be placed at W for the bulb to light $u\bar{p}$ and for the buzzer to ring?

- A A magnet
- B A steel rod
- C A gold coin
- D A piece of aluminium foil
- (1) A and B only
- (2) C and D only
- (3) A, B and C only
- (4) A, B, C and D

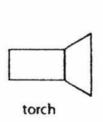
24. The diagram below shows three pieces of wood of different shapes (Not drawn to scale).







The three pieces of wood are glued together and placed between a torch and a screen as shown below.





screen

Which one of the following shadows could be seen on the screen?

(1)



(2)



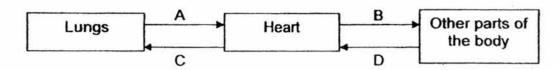
(3)



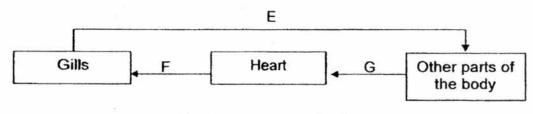
(4)



25. The diagrams below show the circulatory systems of two organisms, a mammal and a fish. The arrows represent the movement of blood in the body of the mammal and the fish.



Circulatory system of a mammal

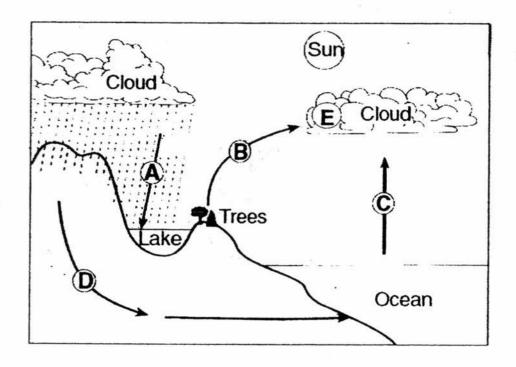


Circulatory system of a fish

Based on the diagrams above, which of the following statement(s) is/are correct?

- A Only arrows C, D, F and G represent the movement of blood rich in carbon dioxide.
- B Only arrows A, B and E represent the movement of blood rich in oxygen.
- C In both systems, the blood rich in oxygen flows through the heart to the other parts of the body.
- (1) B only
- (2) A and B only
- (3) A and C only
- (4) A, B and C

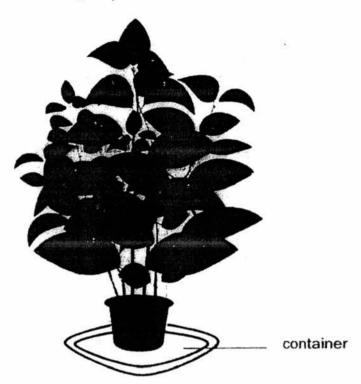
26. The diagram below shows the water cycle.



Which one of the following is correct?

	State of Matter				
	Α	В	С	D	E
(1)	Liquid	Gas	Gas	Liquid	Liquid
(2)	Gas	Gas	Gas	Liquid	Gas
(3)	Gas	Liquid	Liquid	Gas	Gas
(4)	Liquid	Liquid	Liquid	Gas	Liquid

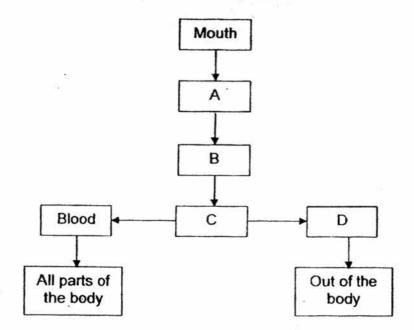
 Bala has a potted plant. He wants to set up an experiment which shows that water travels through a plant into the air.



Which one of the following experiments did Bala carry out?

- (1) Put water in the container under the pot; water will disappear from the container.
- (2) Place a cut stem with a few leaves in a glass of red-coloured water; the leaves will turn red.
- (3) Cover one of the stems with a few leaves with a plastic bag and water the plant; drops of water will be seen in the bag.
- (4) Remove the water-carrying and food-carrying tubes from one of the stems of the plant; the leaves on the stem will turn yellow.

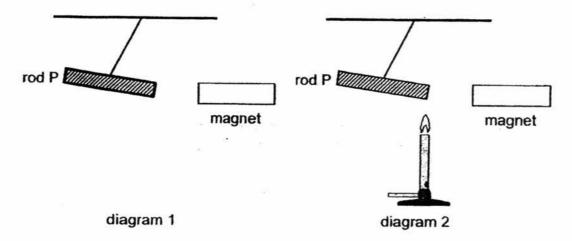
- 28. Which property of a substance will indicate whether the substance is a liquid or a solid at room temperature?
 - (1) Strength
 - (2) Hardness
 - (3) Melting point
 - (4) Heat conductivity
- 29. The flowchart below shows the pathway taken by food after it enters the mouth. A, B, C and D are parts of the digestive system.



Which part contains the most amount of digested food?

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

30. Diagram 1 shows a magnet held near rod P which is tied to a string. A flame is then placed at one end of the rod P as shown in diagram 2. After a while, rod P started to move towards the magnet.



Which of the following caused rod P to move towards the magnet?

- A Rod P was pulled by gravity.
- B Rod P had lost some of its magnetism.
- C Rod P expanded and increase in mass.
- (1) C only
- (2) A and B only
- (3) B and C only
- (4) A, B and C

Index No.			
	 E	l	i i



NAN HUA PRIMARY SCHOOL PRELIMINARY EXAMINATION - 2016 PRIMARY 6

SCIENCE

BOOKLET B

14 Open-ended questions (40 marks)

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

INSTRUCTIONS TO CANDIDATES

- 1. Write your name and index number in the space provided.
- 2. Do not turn over the page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Write your answers in this booklet.

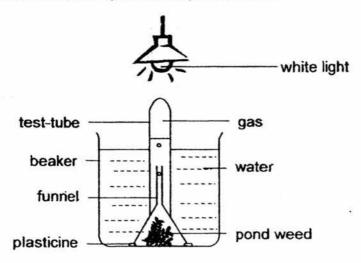
Section B		/40			
Name:			()	Class: P 6
Date: 26 Augu	st 2016	_	Parent's	Signature:	

Section B: (40 marks)

Write your answers to questions 31 to 44.

The number of marks available is shown in brackets [] at the end of each question or part question.

 The diagram below shows an experiment to investigate how the colour of light will affect photosynthesis in pond weeds.



Bubbles of gas produced during photosynthesis were given off from the pond weed and collected in the test tube.

(a) State **two** substances that are taken in by the pond weed and used for photosynthesis? [1]

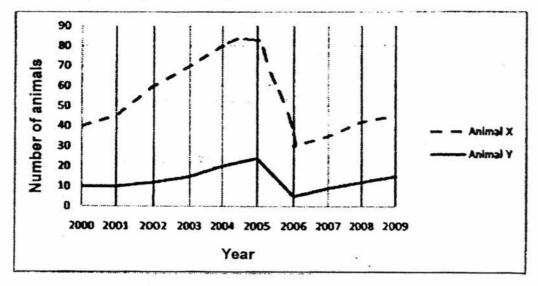
Blue, green and red light were then shone, in turn, onto the same setup. The number of bubbles of the gas given off in one minute was counted and recorded in the table below.

Colour of light	Number of bubbles given off in one minute
White	140
Blue	85
Green	10
Red	68

b)	Under which type of light will pond weeds grow the least? Explain why.
	[1]
c)	What is the purpose of conducting the experiment using white light? [1]

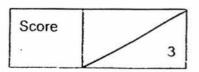
Score 3

32. The graph below shows the number of Animals X and Y living in a community over a period of 10 years.

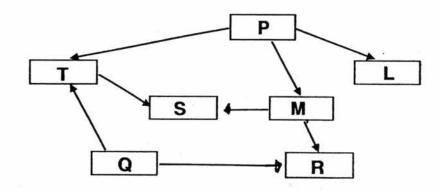


(a)	The population of Animal X must increase before t	he population of
	Animal Y can increase. Explain why?	[2]

	he possible
time period of the drought from the graph.	[1]



33. Study the food web below carefully.



The letters represent organisms living in an ecosystem.

(a)	Based on the food web, identify the possible food producer(s).	[1]
-----	--	-----

(b)	Explain the role of organism S in the food web above.	[1]

esed on the food web	above if the whole perculation	of C in kills
	above, if the whole population on will be most affected? Exp	
	- · · · · · · · · · · · · · · · · · · ·	,

34. The picture below shows the skull of an animal.

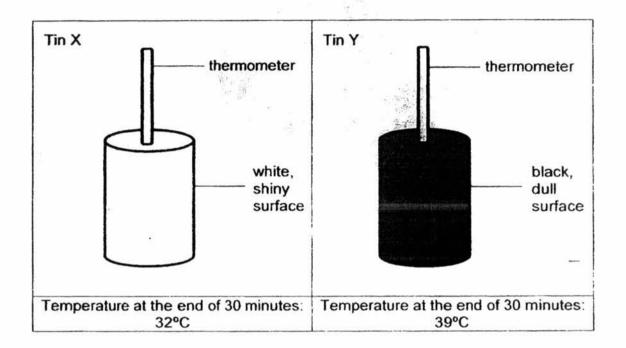


- Based on the structure of the jaw and teeth, identify if the animal is a/an (a) herbivore, carnivore or omnivore. Explain your answer.
- (b) The young of the animal above stays on the trees, while the adult can move on land and swim in water easily. Suggest one possible reason

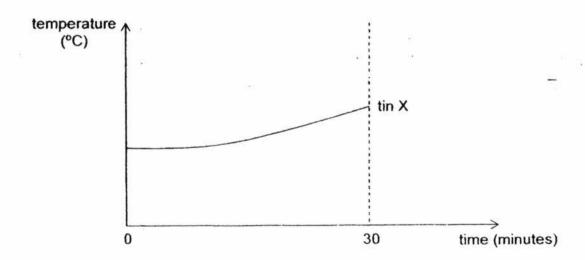
for nesting the young up on the tree. [1]

Score

35. James placed 2 tins, X and Y, in an open field on a sunny day. The starting temperature for both tins is the same. He then measured and recorded the temperature of the air in each tin at 2-minute intervals for a period of 30 minutes.



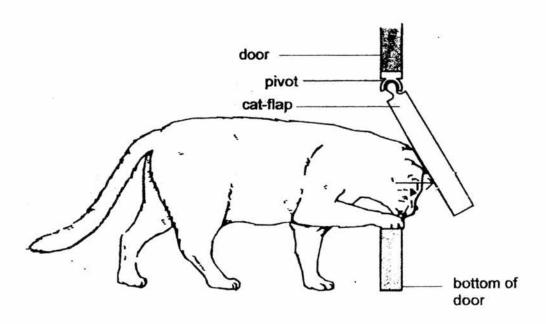
The temperature change in tin X was recorded in the graph below.



(a) Complete the graph for tin Y above. Label your graph.

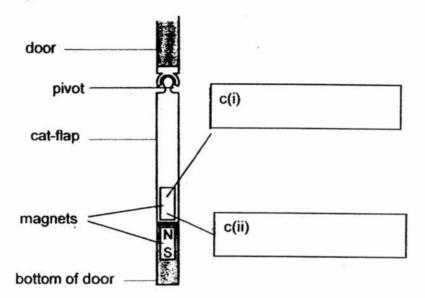
	After 30 minutes, the temperature of air in tin Y shows a temperature? Explain why.	hi
,		
ı	Aluminium foil is often used to wrap chocolate bars. Based on the experiment, explain why aluminium foil is used.	

36. Ali made a cat-flap to fit into a door.



- (a) On the diagram above, draw an arrow to show the direction of the force of the cat's head on the cat-flap. [1]
- (b) When the cat has gone through the cat-flap, the flap closes on its own. Explain why. [1]

(c) When a strong wind blows, the cat-flap blows open on its own. Ali decided to add 2 bar magnets to keep the cat-flap closed so that it will not be blown open by the wind.

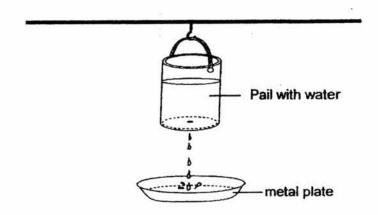


On the diagram above, label both the North and South poles of the magnet on the cat-flap. [1]

(d) After a while, whenever the cat goes through the cat-flap, a squeaky sound is heard. Explain, in terms of forces, what causes the squeaky sound and what Ali could do to reduce the squeaky sound. [1]

Score 4

37. Bala filled a pail with water. He hung it above a metal plate. A hole was made at the base of the pail for the water in it to drip out. When each drop of water hit the metal plate, a sound was heard.



(a) State the energy changes which took place when the water from the pail dripped onto the metal plate. [1]

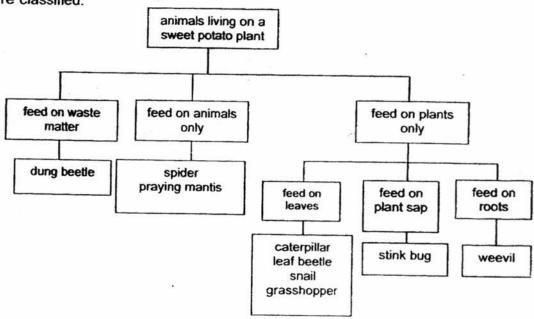
(b) The hole at the base of the pail was enlarged. Describe the change in the loudness of the sound heard. [1]

(c) Explain how enlarging the hole caused the change in the loudness of

sound as described in your answer in (b).

Score 3

 The chart below shows how the animals living on a sweet potato plant are classified.



Using the information from the chart, answer the following questions.

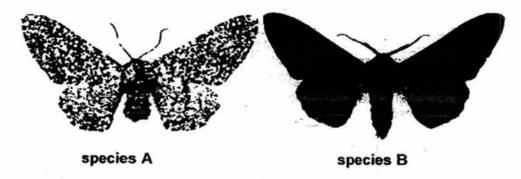
(a) Peter spotted a caterpillar on the leaf of the sweet potato plant. He picked up the caterpillar and dropped it onto the waste matter on the soil near the plant. The caterpillar was injured and could not move. After a few days, Peter found that the caterpillar had died.

Explain why the caterpillar died.		15.55	[1]
	949		

(b) The different groups of animals eat different types of food. How does this benefit the animals living on the sweet potato plant? [1]



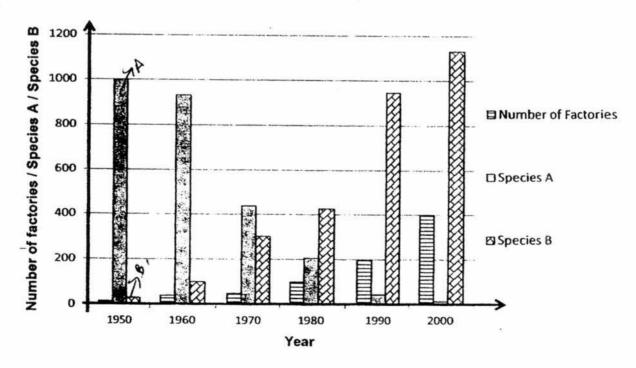
39. Below are 2 species of moth found in a forest which is surrounded by factories in town X.



The factories have smokestack chimneys. These factories were constantly giving out black soot into the air over the period of 1950 to 2000. The trees in the forest were blackened over the years because of the soot.



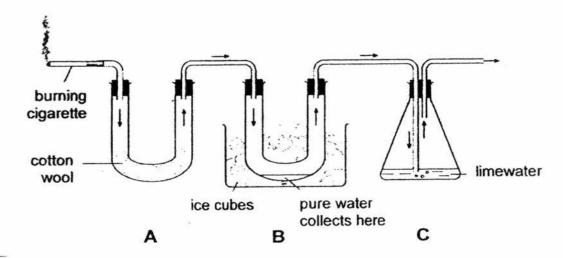
The bar chart shows the data collected on the number of factories built over a period of time in town X as well as the population of the two species of moth, A and B, found in town X.



)	State the relationship between the number of species A and the number of factories built between the years 1950 and 2000.						
	Suggest a possible reason for the increase in the number of species B over the years with reference to the data provided. [1]						

40. A teacher set up the following apparatus to separate the chemicals in cigarette smoke.

The chemicals pass through the apparatus in the direction of the arrows.



In A, tar, a brown sticky substance which causes lung cancer, is collected on the cotton wool.

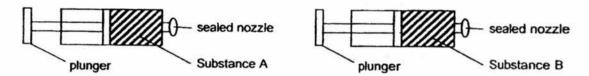
As the cigarette burned, two different gases were produced and passed through B and C.

(a)	After one of the gases passed through B, pure water was collect					
(-)	What is this gas? Explain your answer.	[1]				
	* *					
		92				

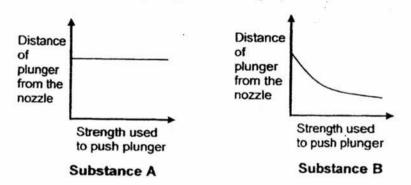
(b) The limewater in C turned cloudy. What is the gas produced during cigarette burning? Explain clearly how this gas can harm the environment. [2]

Score 3

 Leonard filled 2 identical syringes completely with a different substance each and sealed the nozzles as shown below.



He tried to push the plungers in. The graphs below show the results.

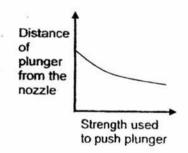


(a) Identify the state of matter of each substance. [1]

Substance A:

Substance B:

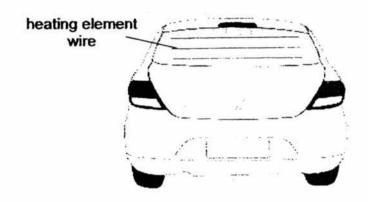
Melissa filled another identical syringe with a ball of cotton wool and sealed the nozzle. She tried to push the plunger in. The graph below shows her results.



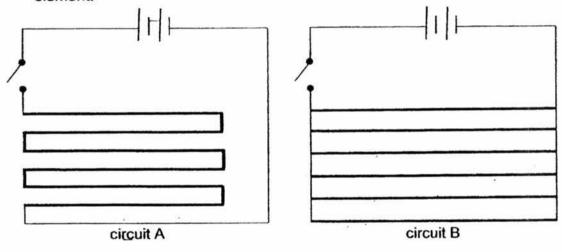
(b) Explain the results obtained [1]

42. In cold countries, the back window of a car usually contains a heating element.

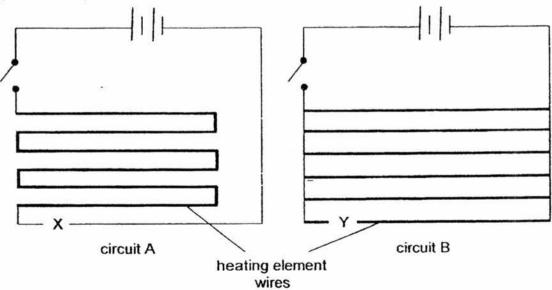
The heating element is part of an electrical circuit connected to the battery of the car.



The diagrams below show two ways of connecting the circuit of a heating element.



(a) A wire gets broken at point X on circuit A and at point Y on circuit B.



Circuit A:	
	*
*	
Circuit B :	757
	· · · · · · · · · · · · · · · · · · ·
	form on the back window of the itched on, the ice will disappear an ne clear and dry. Explain the proc
surface of the window will become that cause the ice to disappear	

Some organisms need to maintain a constant body temperature for survival.
Whales have a thick layer of blubber (fat) under their skin. How does this blubber help the whales to maintain a constant body temperature in cold water?
Humans sweat when they are under the hot sun. How does sweating help humans to maintain a constant body temperature? [2]

44. A group of students conducted an experiment to test the effect of rainwater on the growth of radish plants.

The students planted two identical radish seeds in equal amount of soil. One was watered with non-acidic rainwater, and the other was watered with an equal amount of acidic rainwater. All other variables that would affect plant growth were kept the same for both plants.

The students measured the heights of the plants over a period of 20 days and recorded the results in the table below.

Day	Height of plant watered with acidic rainwater (cm)	Height of plant watered with non- acidic rainwater (cm)		
8	1	2		
12	2	3		
14	3	4		
17	4	7		
20	7	9		

1	The investigation was fair but could be improved to make the results more reliable. Other than repeating the experiment, suggest anothe improvement that could be made. [1]

Score	/
	2

End of Paper

EXAM PAPER 2016

SCHOOL: NAN HUA

SUBJECT: SCIENCE

TERM: SA2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	1	4	2	1	4	3	4	2	1
Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
3	3	4	3	4	2	1	4	4	2
Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	Q30
2	4	4	3	2	1	3	3	3	2

31)a)Water and dissolved carbon dioxide.

b)Under Green light. According to the table, the pond weed produced the least amount of bubbles in a minute exposed to green light. Thus, this shows that the pond weed photosynthesis the slowest under green light. The pond weed would make less food.

c)To act as a control so as to compare and confirm that the colour of light affects photosynthesis in pond weed.

32)a)Animal Y feeds on animal X as animal X has a higher population then animal. Thus, Animal X must increase in population to provide animal Y with more food.

b)2005 to 2006.

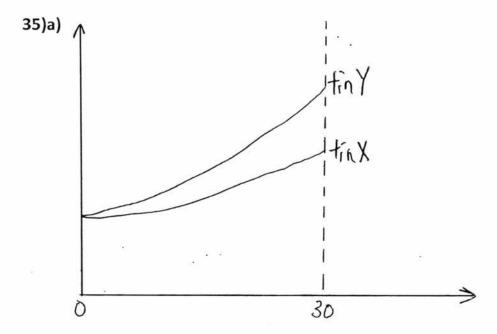
33)a)P and Q.

b) The role of organism is to control the populations of T and M by killing and eating them. By doing this, S ensures that T and M does not over population and upset the ecosystem.

c)Organism T. As there are no more predators to feed on T, the population of T will increase drastically and there will not be enough food.

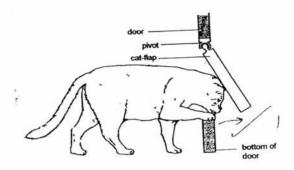
34)a)The animal is a carnivore. The animal has very sharp teeth to grip and tear flesh.

b)Predator of the young of the animal would not be able to reach the young so easily.



b)Tin Y is has a black, dull surface. This type of surface absorbs heat faster and would transfer the heat to air in the tin.

c)The shiny surface of the aluminium foil reflects light away, hence the foil will absorb less heat and the chocolate from gain less the foil and not melt easily.



b)Gravity would pull the cat flap down.

c)i)N-pole ii)S-pole

d)When a cat enters, there is friction between the pivot and the door. Thus, there is a squeaky sound. Ali could apply some oil on the pivot.

37)a)Gravitational potential energy→Kinetic energy→Heat + sound energy

b)The loudness would be higher.

c)When the hole was larger, the mass of water flowing out increased. Hence there was more greater gravitational potential energy converted to kinetic energy of the water and then converted to more sound energy.

38)a)The caterpillar could not move, thus it cannot climb for leaves to eat. Thus it died of starvation.

b)There will be less competition for food.

39)a)As the number of factories built increases, the number of species A decreases.

b)As species B is darker in colour it can camouflaged with the dark coloured truncks of trees in the forest and are not spotted easily by predaotrs.

40)a)Water vapour. The warm water vapour from the cigarette came into contact with the cooler surface of B. Only water vapour can condense and form pure water.

40)b)Carbon dioxide. Carbon dioxide is a green house gas that traps heat on Earth. This can lead to global warming. The polar ice caps would melt and sea levels will rise, flooding coastal areas.

41)a)A: Liquid

B: Gas

b)The cotton wool has tiny air spaces which contain air. The air can be compressed and the plunger can be pushed.

42)a)A: Heating element totally stops working.

B: Heating element still works, but less effective.

b)The heat from the heating element melts the ice into water. The water gains heat from the heating element and evaporates.

43)a)The thick layer of blubber reduces heat loss from the body to the cold water.

b)The water in the sweat gain heat from the body to evaporate. The body loses heat and cools down. Thus the body is cool under the hot sun.

44)a)The radish plant does not grow well in acidic rainwater.

b) They could use more radish plants and calculated the average height.