

Rulang Primary School

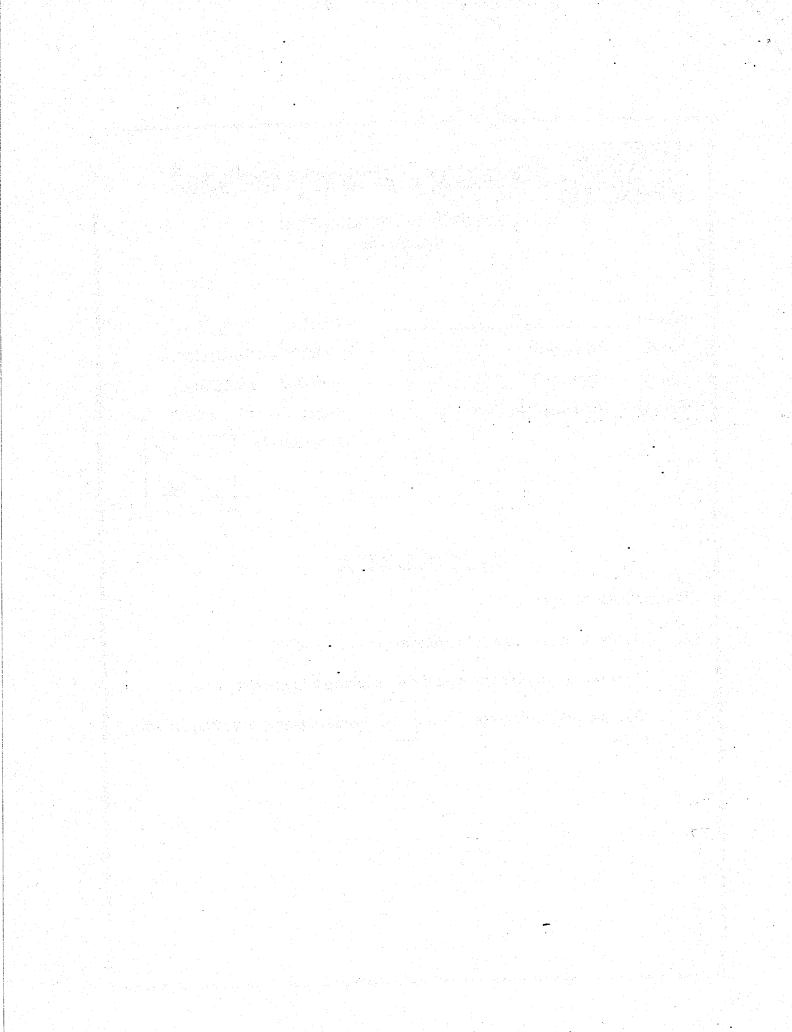
SEMESTRAL ASSESSMENT 2 SCIENCE 2018

Name:		Marks:	/50
Level:	Primary 3	Total Time for	Booklets
Class:	Primary 3 ()	A and B: 1 h	15 min
Setter:	Ms Sng Chee Hoon	Date: 30	Oct 2018
		Total Marks:	
			80

BOOKLET A

Instructions to pupils:

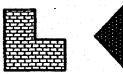
- 1. Do not open this booklet until you are told to do so.
- 2. You are required to answer all the questions in this booklet.
- 3. This question booklet consists of 16 printed pages, including the cover page.

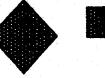


Section A (25 x 2 marks)

For each of the questions from 1 to 25, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade the answers in the Optical Answer Sheet (OAS) provided.

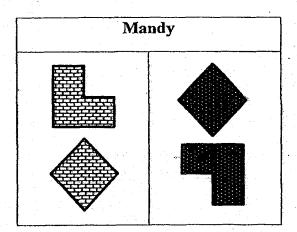
1. Mandy and Kenny were each given 4 objects.

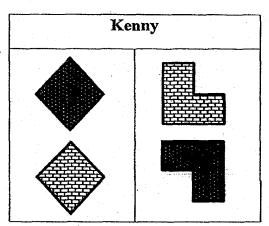






They classified them differently as shown in the tables below.

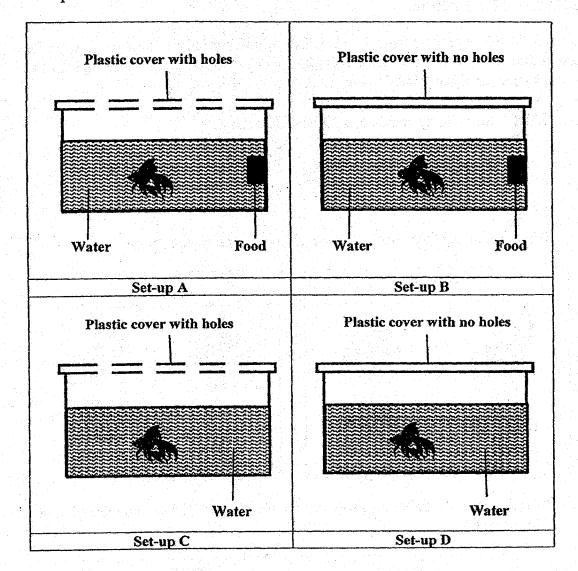




Which one of the following shows how Mandy and Kenny had classified the four objects?

	Mandy	Kenny
(1)	patterns	shapes
(2)	sizes	shapes
(3)	shapes	patterns
(4)	patterns	sizes

2. Valerie wanted to find out if a fish needs air to survive. She prepared four set-ups as shown below.



Which pair of set-ups should she use for her experiment?

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

3. Four pupils made the following comments about plants.

Ali: A plant is a living thing because it can grow taller.

Bob: A plant is a non-living thing because it cannot reproduce.

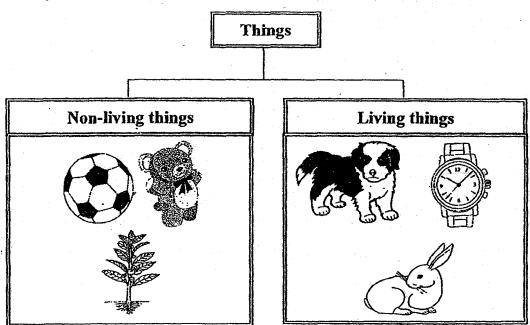
Cath: A plant is a non-living thing because it cannot move on its own.

Devi: A plant is a living thing because it needs air, food and water to survive

Which one of the following pairs of comments are correct?

- (1) Ali and Cath
- (2) Ali and Devi
- (3) Bob and Cath
- (4) Bob and Devi

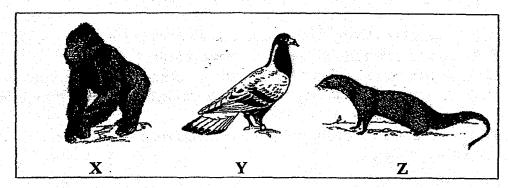
4. Study the classification chart below carefully.



Which one of the following things are wrongly classified under the headings?

1	Non-living things	Living things
(1)	football	watch
(2)	teddy bear	rabbit
(3)	balsam plant	watch
(4)	football	puppy

5. The diagram below shows a group of three animals, X, Y and Z.



Animal Y does not belong to the group because it_____

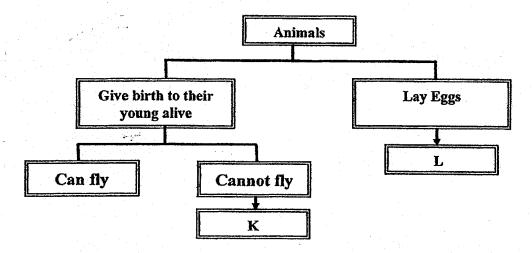
- (1) has a tail
- (2) has two eyes
- (3) gives birth to its young alive
- (4) has feathers as its outer covering
- 6. Study the table below carefully.

	Animal	Has wings to fly	Has fins to swim
	bat	×	
	shark	×	X X
Γ	pigeon	✓	×
	monkey	✓	x

Which one of the following animals has been described correctly?

- (1) bat
- (2) shark
- (3) pigeon
- (4) monkey

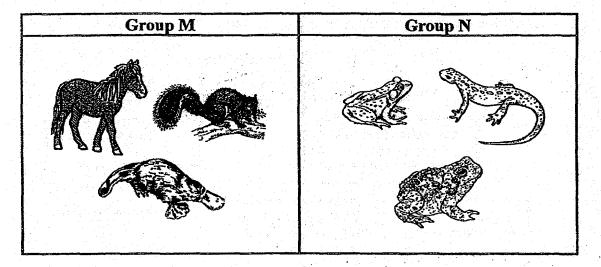
7. Study the classification chart below carefully.



Based on the information in the chart above, which one of the following sets of descriptions states the correct difference between animals K and L?

	Differ	rence
	Animal K	Animal L
(1)	It can fly.	It cannot fly.
(2)	It cannot fly.	It can fly.
(3)	It lays eggs.	It gives birth to its young alive.
(4)	It gives birth to its young alive.	It lays eggs.

8. Study the pictures below carefully.



Which one of the following sets is the possible headings for groups M and N?

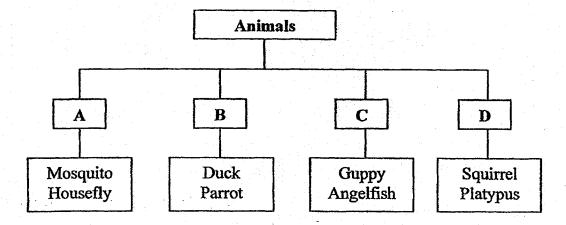
	Group M	Group N
(1)	Amphibians	Mammals
(2)	Mammals	Reptiles
(3)	Mammals	Amphibians
(4)	Reptiles	Mammals

- 9. Animal X has the following characteristics as shown below.
 - It breathes through its lungs.
 - It reproduces by laying eggs.
 - It has scales as its body covering.

Which one of the following groups of animals does X belong to?

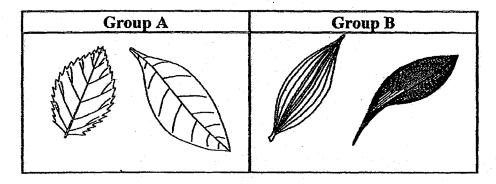
- (1) fish
- (2) birds
- (3) reptiles
- (4) mammals

10. The classification chart below shows how some animals are grouped according to their body coverings.



In which group should a bat be placed under?

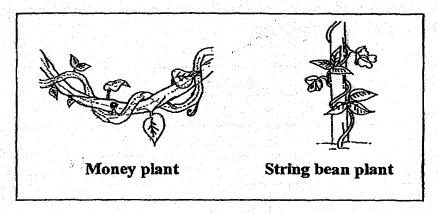
- (1) A
- (2) B
- (3) C
- (4) D
- 11. Study the classification table below carefully.



Which one of the following sets best represents the headings for groups A and B?

	Group A	Group B
(1)	Leaves with a stalk	Leaves with no stalk
(2)	Leaves with network veins	Leaves with parallel veins
(3)	Leaves with jagged edges	Leaves with entire edges
(4)	Heart-shaped leaves	Lance-shaped leaves

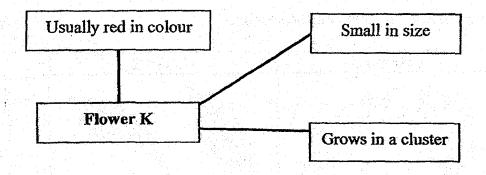
12. The diagram below shows two plants.



What can you tell about the stems of both plants?

- (1) Both have no stems.
- (2) Both have weak stems.
- (3) Both have strong stems.
- (4) Both have woody and strong stems.

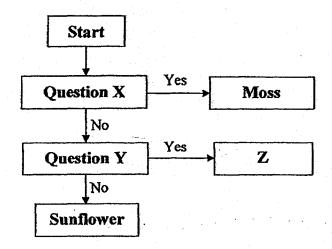
13. Study the concept map below carefully.



Which one of the following best represents flower K?

- (1) Ixora
- (2) Hibiscus
- (3) Water lily
- (4) Sunflower

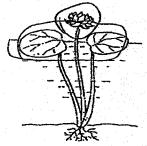
14. Study the flowchart below carefully.



Which one of the following sets best represents question X, question Y and Z?

ĺ	Question X	Question Y	Z
1)	Does it reproduce by spores?	Does it have a weak stem?	Morning glory
2)	Does it reproduce by seeds?	Does it have fruits?	Onion
3)	Does it have leaves?	Does it have a weak stem?	Morning glory
4)	Does it have roots?	Does it have fruits?	Onion

15. Study the pictures below carefully.



Plant P

Plant Q

What are the common observable features of both plants?

A: They have leaves.

B: They are land plants.

C: They are flowering plants.

(1) A and B only

(2) A and C only

(3) B and C only

(4) A, B and C

16. Umar said that all bacteria are harmful. However, her friends disagreed with her and made the following comments.

Ahmad

: Bacteria can be used to make bread.

Bala

: Some bacteria aid in our digestion.

Caili

: Some bacteria turn milk into cheese.

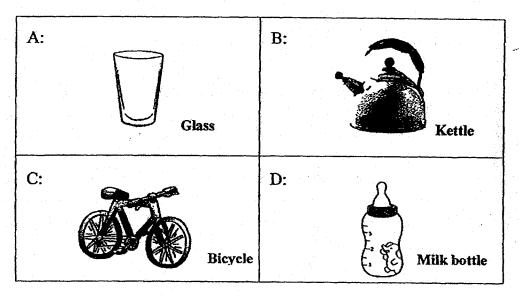
Devi

: Bacteria can cure sore throat or stomachache.

Whose comments about bacteria are correct?

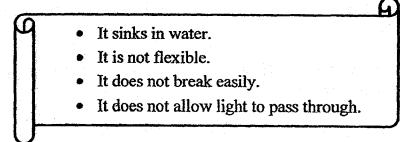
- (1) Ahmad and Bala only
- (2) Caili and Devi only
- (3) Ahmad, Bala and Caili only
- (4) Ahmad, Caili and Devi only

17. Study the pictures below carefully.



Which of the following objects are most likely made of more than one material?

- (1) A and B only
- (2) B and D only
- (3) A, C and D only
- (4) B, C and D only
- 18. Michael described the properties of item X as shown below.



Based on the descriptions above, which one of the following items best represents item X?

(1) Metal key

......

- (2) Paper boat
- (3) Rubber band
- (4) Styrofoam box

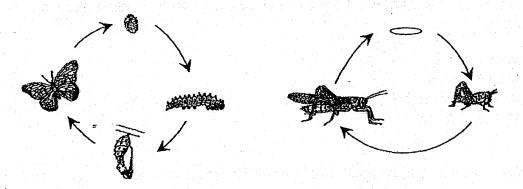
19. Study the diagram below carefully.



Which one of the following sets of materials best represents parts X and Y?

	Part X	Part Y
(1)	Metal	Glass
(2)	Wood	Rubber
(3)	Glass	Wood
(4)	Plastic	Metal

20. The diagrams below show the life cycles of a butterfly and a grasshopper.



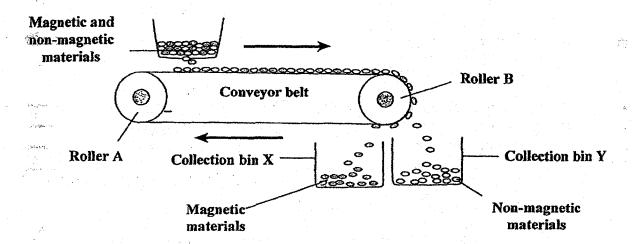
Life Cycle of a Butterfly

Life Cycle of a Grasshopper

Which one of the following differences between the life cycles of a butterfly and a grasshopper is correct?

- (1) The butterfly lays eggs but the grasshopper does not.
- (2) The adult butterfly can fly but the adult grasshopper can hop only.
- (3) The butterfly has a four-stage life cycle but the grasshopper has a three-stage life cycle.
- (4) The young of the grasshopper does not resemble the adult but the young of the butterfly does.

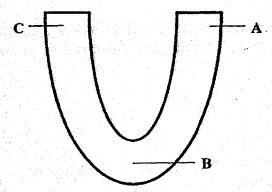
21. A machine was designed to separate magnetic materials from non-magnetic materials. It consists of a conveyer belt passing over two rollers as shown below.



What can you conclude from the diagram above to explain why the magnetic materials can be separated from the non-magnetic materials?

- (1) Roller B is a magnet.
- (2) The rollers and conveyor belt are made of non-magnetic materials.
- (3) Collection bin X is made of non-magnetic materials to attract magnetic materials to it.
- (4) Collection bin Y is made of magnetic materials to attract non-magnetic materials to it.

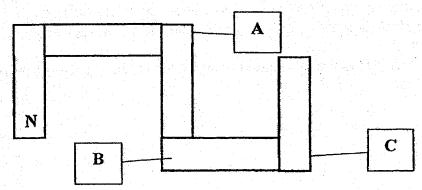
22. Study the U-shaped magnet shown below.



The magnet was placed in a tray of thumbtacks. Which one of the following best represents the number of thumbtacks attracted to A, B and C?

	A	В	C
(1)	5	10	5
(2)	10	5	10
(3)	10	10	10
(4)	10	10	5

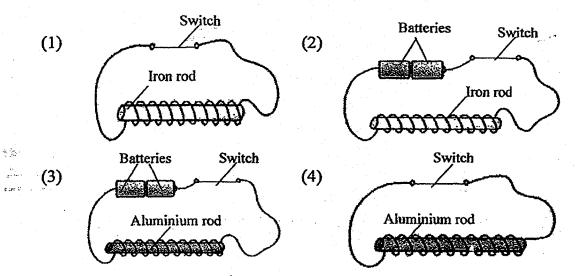
23. The diagram below shows five bar magnets.



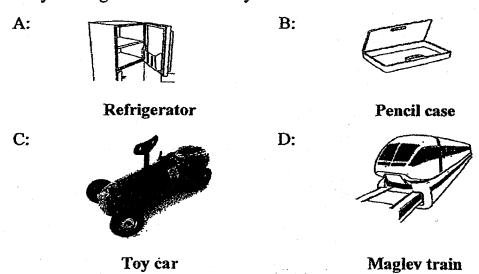
Which one of the following sets best identifies the labelled poles of the magnets?

	A	В	С
(1)	North	North	North
(2)	North	South	South
(3)	South	North	South
(4)	South	South	South

24. Which one of the following rods will become an electromagnet?



25. Study the diagrams below carefully.



Which of the following make use of magnets to work?

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

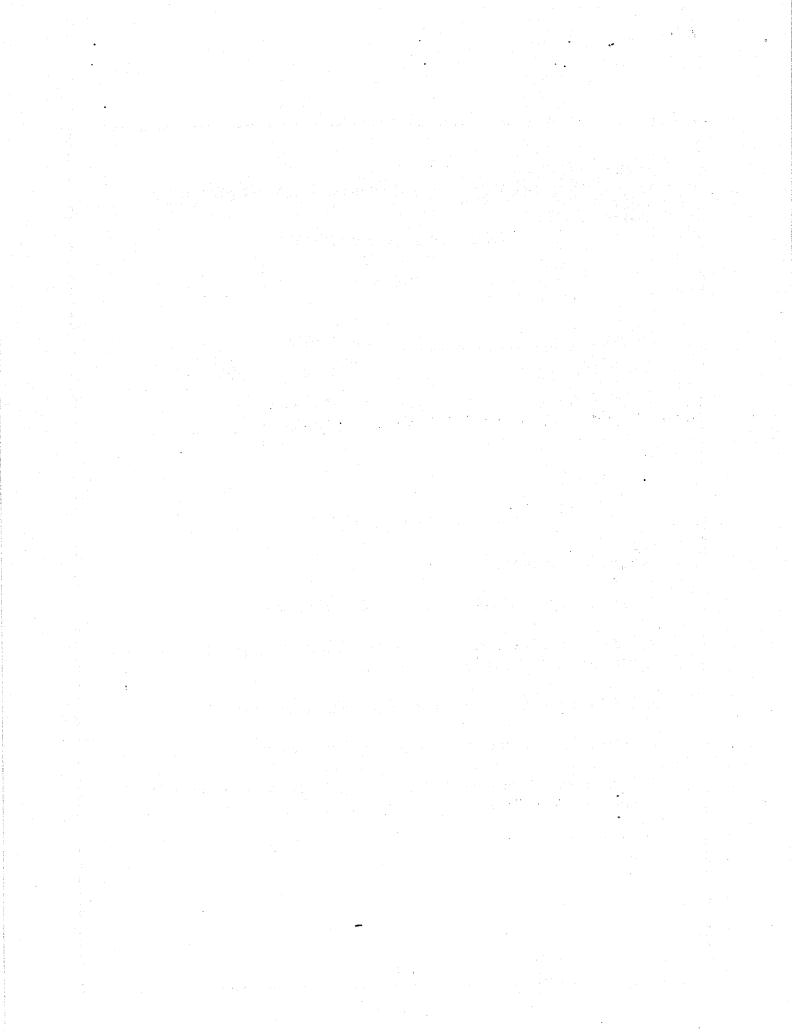
	병원하는 어느 그런 살랐다. 그리고 하는 사람들은 이 보고 있으면 말한
	금드뿐 이 교회에도 있다고 하는 그는 가격 회의 교기 등이 있다.
그의 이용한 것으로 되지 않는 그 가능성을 하였다.	
	,我们就是一个大大,我们就是一个大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大
나왔다. 보다면 하다는 그들은 이 그는 그 이번 모양편.	생물없는 보안 생물이 가득 속에 보이 보이고 있는 모든 다양이 다
	그런 불어 있다. 유민이 보는 사람들이 이 모든 보는 이 등을 하는 것이 되었다.
기급 이 회회들은 기가들은 그리를 가입니다.	
아이에 가게 하시다. 이번만 그 이 얼마나 되었다.	
발목 기관들은 그게 하는 밤 그림을 하게 하는 것은	
	가 있는 것으로 가능하게 하는 것은 물론을 받아 된다. 그는 그 보장을 보고 보는 사람들이 가는 것을 보고 되었다. 2008년 - 1911년 - 1918년
	회가는 그래 프로그는 가고 있을 수는 그는 그를 모든 것이다.
	일시 회사는 이 사이에 나는 방문하다고 되어야 하면 하는 것이라고 있다.
	사이 아이지 방안을 수 있는 것이 아니는 얼마를 가지면 이 병을 이 사이다.



Rulang Primary School

SEMESTRAL ASSESSMENT 2 SCIENCE 2018

Name:	Marks:	/30
Level: Primary 3	Date:	30 Oct 2018
Class: Primary 3 ()	Parent's Signature:	
BOOK	LET B	en e
Instructions to pupils:		
1. Do not open this booklet until you	are told to do so) .
2. You are required to answer all the quotes / expressions as far as possible		aper using your own
3. All drawings / diagrams must be cle	arly shown and la	belled.
4. Marks will be deducted for wrongly	spelt key words.	
5. This question booklet consists of cover page.	11 printed	pages, including the



Section B: (30 marks)

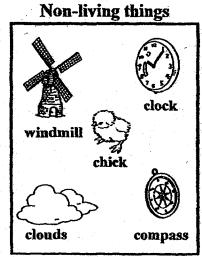
Write your answers to questions 26 to 35 in this booklet.

26. Study the two groups of things as shown below carefully.

stingray snail

lizard

Eraser woodpecker



(a) One thing in each of the two groups above are not classified correctly. What are they? (2 m)

_____ and ____

- (b) Write down a difference between the characteristics of the things in the two groups. (1 m)
- (c) Kiara is given 4 different buttons, A, B, C and D, as shown below.





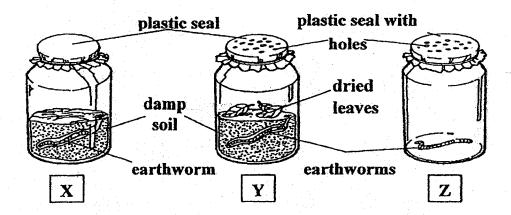




Classify the 4 buttons under groups X and Y below by their shapes. Write down the letters "A", "B", "C" and "D" in the table below. (1 m)

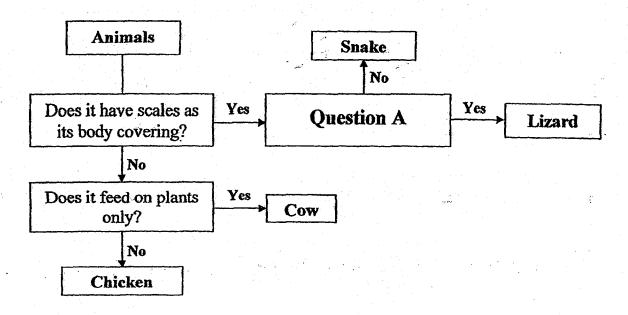
Group X	Group Y
	·

27. In the following experiment, earthworms are kept in three jars under different conditions.



The earthworm in jar Y can survive the longest. Explain clearly why the earthworm will survive the longest. (2 m)

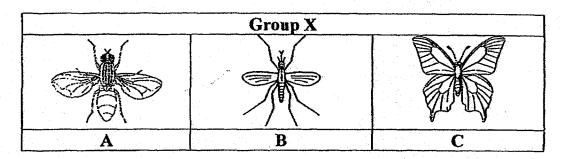
28. Study the flowchart below carefully.



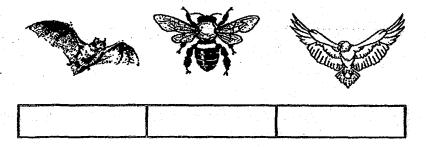
- (a) Based on the information in the flowchart, write down question A. (1 m)
- (b) Based on the information in the flowchart, write down a difference between a lizard and a cow. (1 m)

(c) Based on the information in the flowchart, write down one characteristic of a chicken. (1 m)

29. Study the pictures below carefully.



(a) Which one of the following animals can be placed in the same group as shown above? Put a tick (✓) in the box provided below. (1 m)



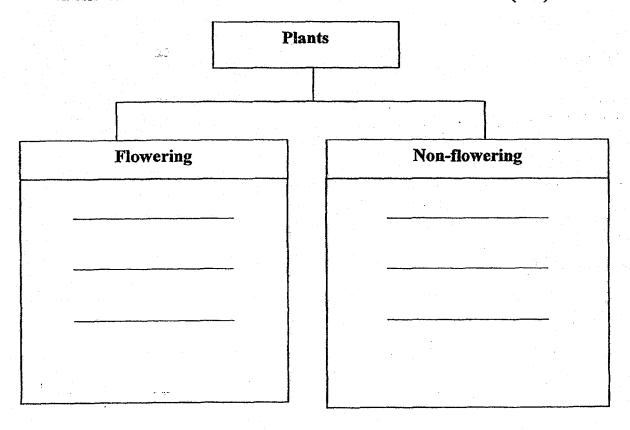
(b)	What are two common observable characteristics to distinguish in group X from other living things?							
(i)		e e i de talle de la					green de la companya	
:								
(ii)								

30. The table below shows some plants.

Orchid Tomato

Rose Ladder fern

Classify the plants from the table above into two groups by completing the classification chart below. (2 m)



31. The picture below shows bacteria L under a microscope.

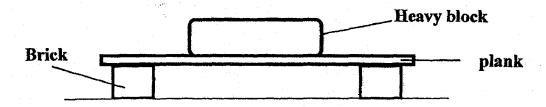


Bacteria L are living things that can be found in a type of drink called yoghurt.

Which of the following statements correctly describe bacteria L? Put a tick (1) in the box for a true statement and a cross (X) in the box for a false statement. (2 m)

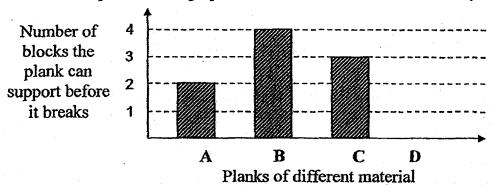
	Statements	Put a tick (🗸) for a true statement and a cross (X) for a false statement
(a)	Bacteria L are harmful to human because they cause illness.	
(b)	Bacteria L are used to make edible yoghurt for human consumption.	
(c)	Bacteria L can be seen with our naked eyes.	
(d)	Bacteria L do not need food to survive.	

32. Kelly set up an experiment to test the strength of four planks, A, B, C and D. They are made of different materials. She placed plank A on two bricks as shown below. Then, she placed some heavy blocks on the plank, one at a time, and recorded down the number of blocks the plank could support before it broke. She repeated the experiment with the other three planks.



She recorded her results in the bar graph below.

(a) Based on this information, draw the bar graph for plank D which was the weakest plank in the graph below. (1 m)

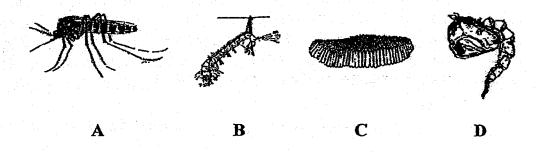


Based on the experiment and graph, arrange the planks from the strongest to the weakest in the boxes below. (1 m)

Strongest plank		Weakest plank

(b) Which plank should Kelly use to support her heavy load of books? Explain your choice. (2 m)

33. The pictures below show the different stages in the life cycle of a mosquito.



(a) Arrange the stages (A, B, C and D) in the correct order. (1 m)

	Egg	Larva	Pupa	Adult
ſ				

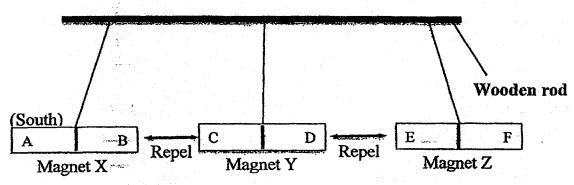
(b) At which stage (A, B, C or D) is the mosquito most harmful to the human? (1 m)

At	stage		

(c) Which of the following statements are correct ways of preventing mosquitoes from breeding? Put a tick "✓" for each of the correct ways and a "X" for each of the wrong ways. (2 m)

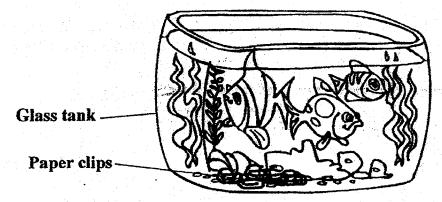
	Statement	"√" or "X"
(i)	Leave the water on the plates beneath the pots of flower alone.	
(ii)	Scrub the inside of the vase to remove the eggs of mosquitoes.	
(iii)	Cover the toilet bowls if the whole family is away on a holiday.	
(iv)	Turn over all pails and water storage containers when not in use.	

34. Tim hung three similar magnets X, Y and Z on a wooden rod. The diagram below shows magnet Y repelling magnet X and magnet Z. The letters A, B, C, D, E and F represent the poles of the 3 magnets.



	D:	pole	E:	_ pole
	The diagram be	low shows a con	npass.	
y !	Write down the	part of the comp	ass which is a magnet	. (1 m)
	general de la companya de la company	uss		
r		ion will the comp y suspended as sl	pass's magnet be point nown above?	ing after some tim (1 m)

35. Jolene has a fish tank made of glass. One day, she found some paper clips inside the tank.



She decided to use a strong magnet to remove these paper clips. She had three magnets, A, B and C. The table below shows the number of paper clips the magnets could attract from a distance of 20cm.

Magnet	Number of paper clips attracted from a distance of 20cm			
A	8			
В	3			
C	10			

(a) Jolene wanted to choose the strongest magnet to remove the paper clips from the fish tank. From the data above, which magnet should she use? Give a reason for your choice. (2 m)

(b) If some iron nails had fallen into the fish tank instead, would Jolene be able to remove them by using the magnet? Explain why you think so.

(1 m)

EXAM PAPER 2018 (P3)

SCHOOL: RULANG

SUBJECT: SCIENCE

TERM: SA2

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

Q26) a) Eraser and chick

- b) Living things need air, food and water to survive but non-living things do not need air, food and water to survive.
 - c) Group X A, D

Group Y - B, C

- Q27) The earthworm in Jar X does not have air and food and the earthworm in Jar Z does not have food and water.
- Q28) a) Does it have four legs?
- b) The lizard has scales as it body covering but the cow does not have scales as it body covering.

it body covering.	nts only and it does not have scales as
Q29) a)	
b) i) Group X has three body parts b	ut other living things does not have
three body parts.	
ii) They have two feelers.	
Q30) Flowering – Tomato , Rose , Orchid	
Non-flowering – Ladder fern	
Q31) a) cross	
b) tick	
c) cross	
d) cross	
Q32) a) B – C – A – D	
b) Plank B, because plank B is the s	trongest among all the other plank as it
can hold 4 blocks before it breaks.	
Q33) a) C – B – D – A	
b) At stage A	
c) i) cross	
ii) tick	en e
iii) tick	

iv) tick

Q34) a) D: South pole E: South pole

ingi. Tamb

- b) The needle
- c) The compass's magnet will be pointing at the north-south direction.
- Q35) a) Magnet C, because it is the strongest magnet among all the other magnets as it can attract 10 paper clips from a distance of 20 cm.
- b) Yes, because a magnet can attract magnetic materials and iron is a magnetic material.

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