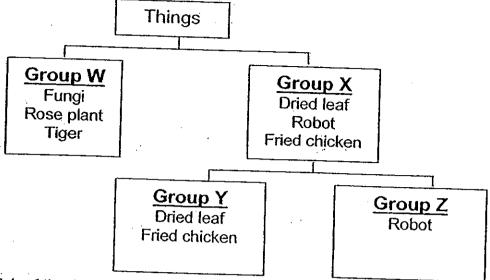


HENRY PARK PRIMARY SCHOOL 2010 SEMESTRAL EXAMINATION II SCIENCE PRIMARY 3

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ame:\	(Pare	ent's Signature	
ass: Pr 3				
art 1 (60 marks) or each question fr ake your choice (1 neet.	om 1 to 30, four op , 2, 3 or 4). Shade	otions are given. One of them is th the correct oval (1, 2, 3 or 4) on th	e correct answe ne Optical Answ	er. Vei
When John ch	nases a stray kitten acteristics does the	, it runs away in fear. Which of the cat show?	е	
(1) It can grow (2) It can move (3) It needs for	2		· · · .	
(4) It can repro			(')
The following they come from	materials shown be m.	elow are classified according to wh	nere	
(Group A	Group B		
	Rubber	Leather		
	Cotton	Silk		
Which of the fo	ollowing items can	be placed together with the items	in	
Which of the formal Group A?	ollowing items can	be placed together with the items (3) Wool	in	

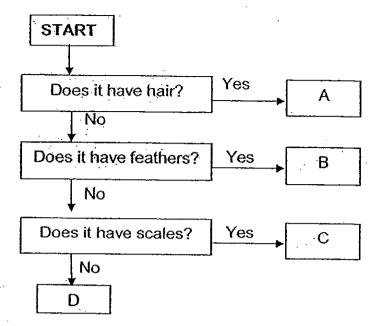
3. The classification chart below shows how some things are classified.



Which of the following best represents the headings for Group Y and Group Z?

	Group Y	Group Z
(1)	Living things	Non-living things
(2)	Edible	Non-edible
(3)	Once alive	Never alive
(4)	Man-made	Natural

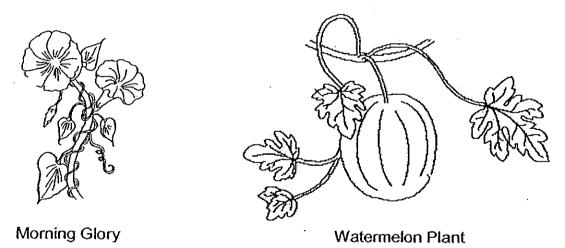
4. The flowchart below shows the characteristics of A, B, C and D.



Based on the flowchart, which one best represents A, B, C and D?

	Α .	В	С	D
(1)	Insect .	Mammal	Bird	Fish
(2)	Bird	Fish	Insect	Mammal
(3)	Insect	Fish	Mammal	Bird
(4)	Mammal	Bird	Fish	Insect

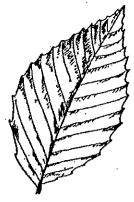
5. The pictures below show two plants.



Based on the pictures, which of the following statements about the two plants above are true?

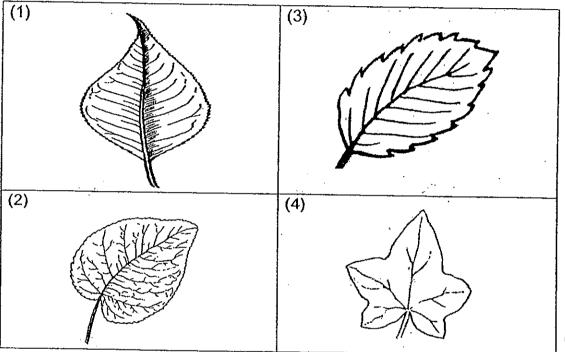
- (1) Both are flowering plants.
- (2) Both plants have strong stems.
- (3) Only the morning glory plant produces flowers.
- (4) Only the watermelon plant reproduces from seeds.

6. Look at the leaves shown below.





Which of the following leaves cannot be classified in the same group as the two leaves above?



7. A slice of bread was placed by the kitchen for a few weeks. Some mould was seen growing on it after a week.



Which of the following is/are a characteristic(s) of the bread mould?

A: It is a plant.

B: It can reproduce from spores.

C: It gets its nutrients from the slice of bread.

(1) A only

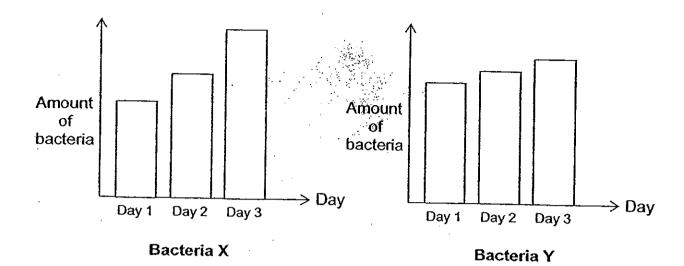
(3) A and C only

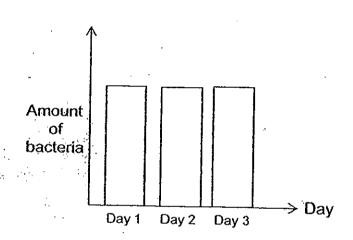
(2) B only

(4) B and C only

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8. The same amount of bacteria, X, Y and Z were shown under a microscope. They were observed over three days and the amount of each type of bacteria was recorded at the end of each day. The data collected was shown on the graphs below.





Bacteria Z

Based on the graphs, what can you conclude about the reproduction of the three types of bacteria?

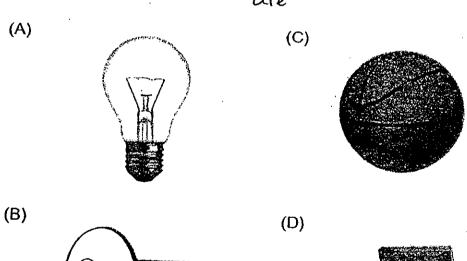
- (A) Bacteria X reproduced after one day.
- (B) Bacteria Y reproduced more than X over the three days.
- (C) Bacteria Z did not reproduce over the three days.
- (1) A only

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

Which is the most important reason for choosing plastic to make 9. raincoats?

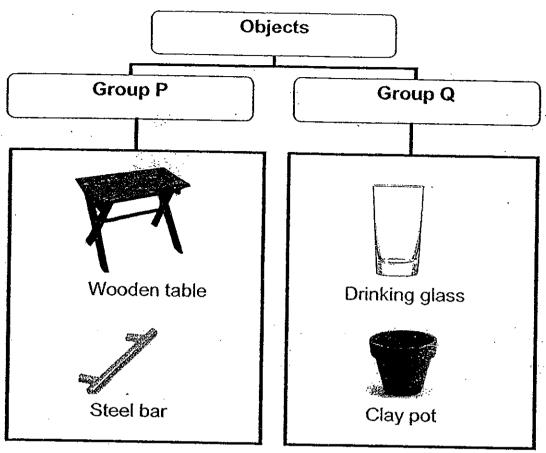


- (1) It is elastic(2) It is heavy
- (3) It is colourful (4) It is waterproof
- Which one of the following objects a made from only one material? 10. are



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

11. The classification table below shows how some objects are grouped into P and Q.

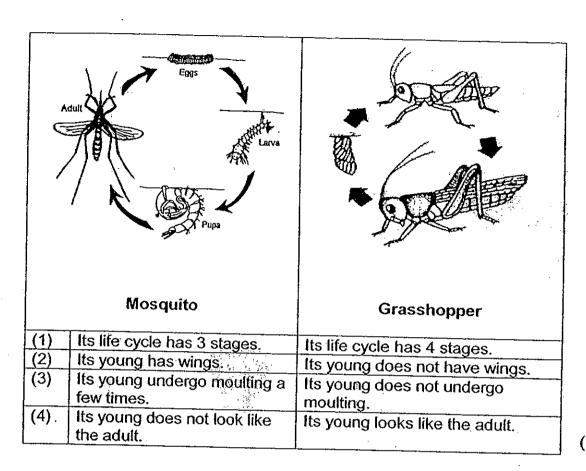


Which one of the following best describes the materials used to make the objects in Group P and Group Q?

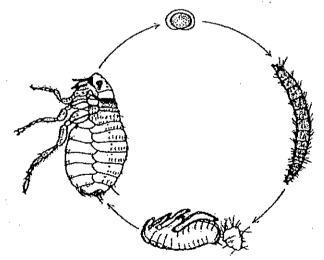
	Group P	Group Q
(1)	Soft	Hard
(2)	Strong	Breaks Easily
(3)	Flexible	Not flexible
(4)	Light	Heavy

- 12. Which of the following statement(s) is/are true of a life cycle?
 - A: Different animals have different stages of life cycles.
 - B: The life cycle of a living thing involves only reproduction.
 - C: The young of an animal goes through the same life cycle as its parents.
 - (1) A only
 - (2) C only
 - (3) A and C only
 - (4) B and C only

13. John compared the life cycles of a mosquito and a grasshopper. Which one of the following comparisons is true?

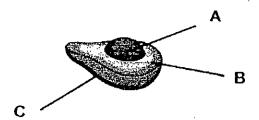


14. Which of the following statement describes the life cycle of the insect below correctly?



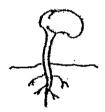
- (1) The insect does not moult.
- (2) The young looks like the adult.
- (3) The insect lays its eggs in the water.
- (4) The young stops feeding for a period of time.

15. The diagram below shows a fruit.



Under suitable conditions, which part/s of the fruit above (A, B or C) will grow into a new plant?

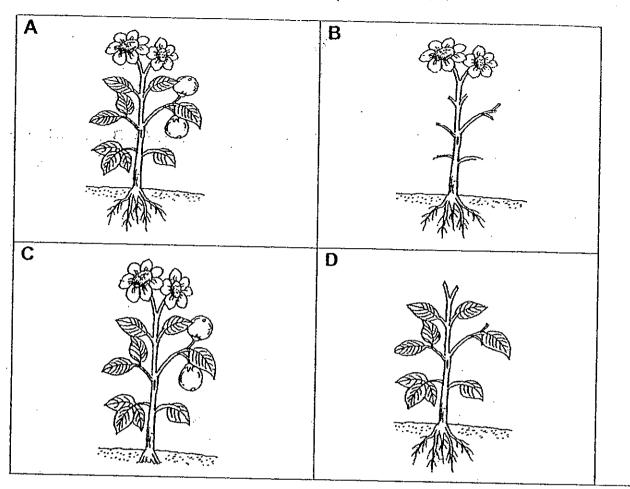
- (1) A only
- (2) B only
- (3) **C** only
- (4) A and B only
- 16. The picture below shows a seedling.



What will appear from the seedling after this stage?

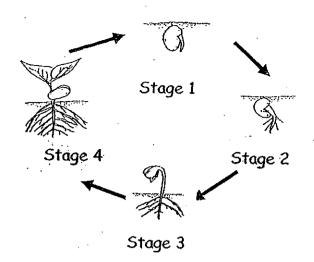
- (1) Fruits
- (2) Flowers
- (3) Leaves
- (4) Seed coat

17. The following plants are placed in the sunlight and given water every day. Which plant(s) will not be able to survive past one week?



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

18. The diagram below shows the life cycle of a flowering plant.



The plant will not survive and grow without sunlight in	
---	--

- (1) Stage 1
- (2) Stage 2
- (3) Stage 3
- (4) Stage 4
- 19. Ben carried out an experiment to find out what would happen when 3 objects are brought near a **bar magnet**. The table below shows the results of his experiment.

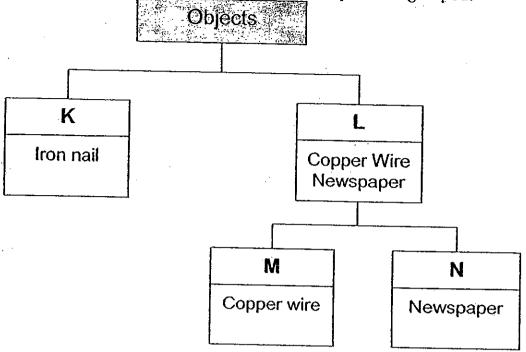
Y		AI.
^	_	No

Object	Attracted to magnet	Repelled by magnet
Α	1	X
В	X	Y
С	1	

What could objects A, B and C be?

A	В	С
) Paper clip	Plastic cup	U-shaped magnet
2) U-shaped magnet	Plastic cup	Paper clip
) Plastic cup	Paper clip	U-shaped magnet
) U-shaped magnet	Paper clip	Plastic cup

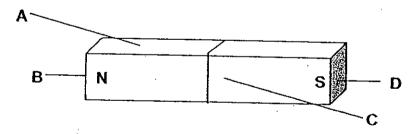
20. The classification chart below shows how some objects are grouped.



Which of the following shows suitable headings for K, L, M and N?

K	L	M	N
Magnetic	Non-magnetic/	Not waterproof	Waterproof
Non-magnetic;	Magnetic	Non-metal	Metal
Magnetic :	Non-magnetic	Metal	Non-metal
Non-magnetic:	Magnetic	Not waterproof	Waterproof

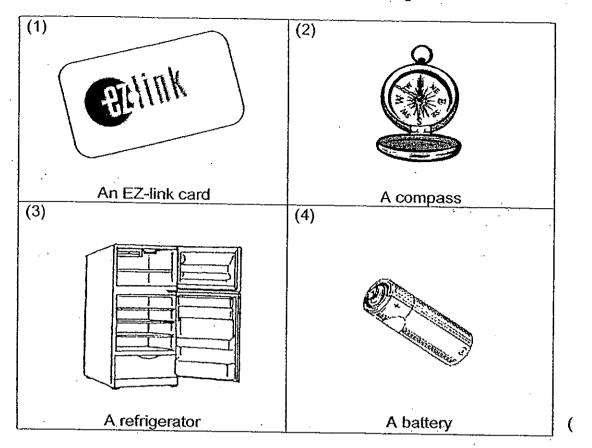
21. The diagram below shows a bar magnet.



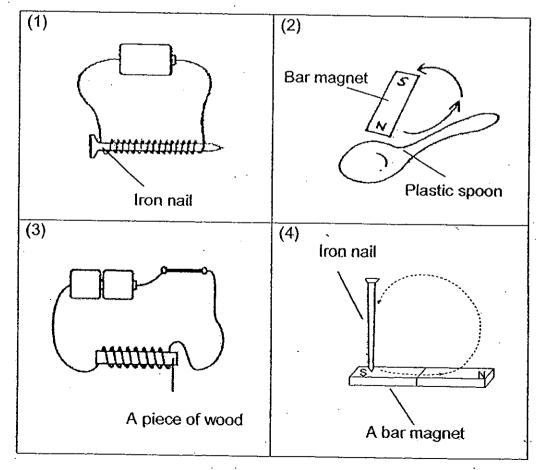
If the magnet is placed in a box of paper clips, which part of the magnet, **A**, **B**, **C** or **D**, will attract the most number of paper clips?

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

22. Which of the following devices does not contain a magnet?

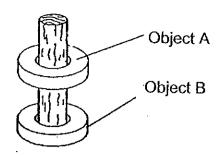


23. Which of the following will create a temporary magnet?

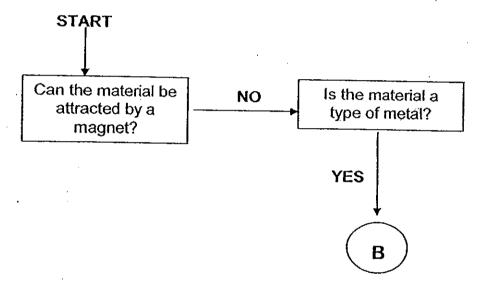


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24. The diagram below shows Object A floating above Object B. Which one of the statements is **TRUE**?



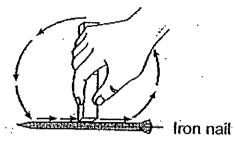
- (1) Object A is attracted to Object B.
- (2) Both Object A and B are magnets.
- (3) Object A and Object B are non-metals.
- (4) Only Object A is a magnet but Object B is a magnetic material.
- 25. The flow chart below shows the characteristics of B.



Which of the following could B be?

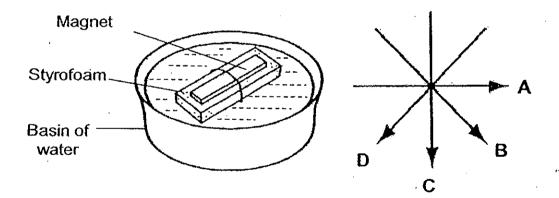
- (1) Iron
- (2) Steel
- (3) Nickél
- (4) Copper

26. John is making a temporary magnet by using the stroking method. He wants to find out whether the magnetic strength of a temporary magnet increases as the number of strokes increases.



In order to carry out a fair test, what are the variables that need to be kept the same?

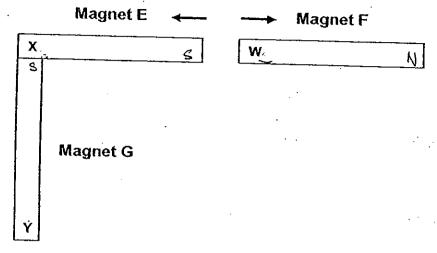
- A: The number of strokes.
- B: The types of magnet used for stroking.
- C: The size of the iron nail.
- (1) A only
- (2) B only
- (3) B and C only
- (4) A and C only
- 27 A magnet is allowed to float on water. After a while, it comes to rest in the direction as shown below.



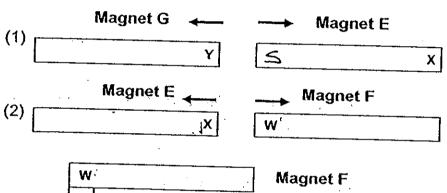
Which direction, A, B, C or D is the North pole of the magnet pointing to?

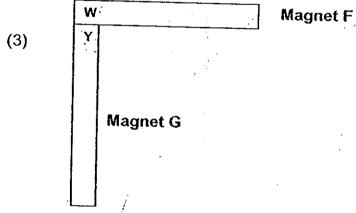
- (1) A
- (2) B
- (3) C
- (4) D

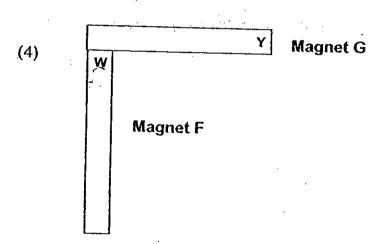
28. Bella placed 3 bar magnets, E, F and G as shown below. Magnets E and G attract each other but Magnets E and F repel each other.



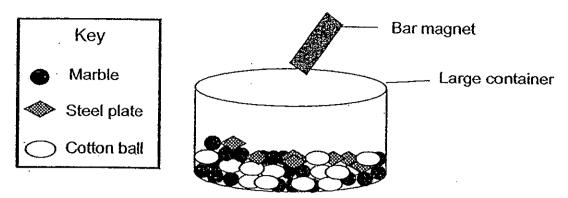
Which one of the following shows correctly how Magnets E, F and G interact with one another?







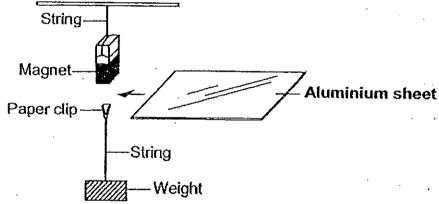
29. Sam has a large container containing some objects as shown below. He wants to separate these objects.



Sam is able to take some of the things out from the container by using a bar magnet.

Which of the objects can be taken out using the bar magnet?

- (1) Marbles only
- (2) Steel plates only
- (3) Marbles and steel plates only
- (4) Cotton balls and marbles only
- 30. Sam hung a bar magnet above a paper clip which was tied to a weight by a string. The paper clip was then suspended in the air as shown below.



)

When Sam placed the aluminium sheet between the magnet and the paper clip, the paper clip remained suspended.

Which of the following statements below is TRUE?

	Statements
(1)	Magnetism can pass through magnetic materials.
(2)	Magnetism cannot pass through aluminium.
(3)	Magnetism repels the paper clip at a distance.
(4)	Magnetism enables the paper clip to stay suspended.

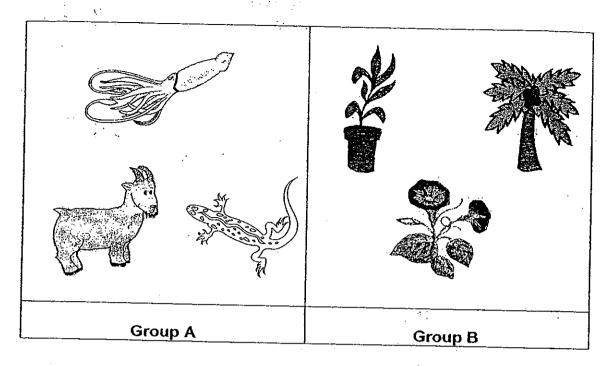
End of Part 1

HENRY PARK PRIMARY SCHOOL 2010 SEMESTRAL EXAMINATION II SCIENCE PRIMARY 3



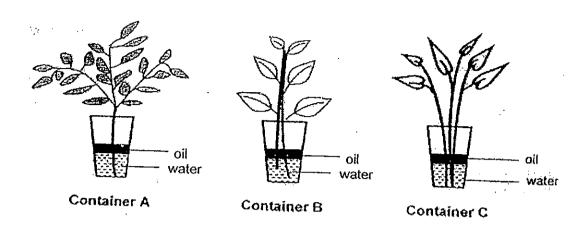
Name <u>:</u>	·	; 		40	
Class: Pr 3		i	· ·		
Part 2 (40 ma Write your ans	rks) wers to question	ns 31 to 44 in the s	paces given.	,•	·
		The objects below t		sified into 3	
Draw in the s	pace provided to	pelow, another way a qual number of object	of classifying thets.	nem into 3 group	s. (3m)
		,			

32. Living things are put into 2 groups as shown below.



	,	
tate one	way in which the living things in Group A	and Group R are
tate one imilar. (D	way in which the living things in Group A o not mention movement, shape and size	and Group B are
tate one milar. (D	way in which the living things in Group A to not mention movement, shape and siz	and Group B are e)
tate one milar. (D	way in which the living things in Group A to not mention movement, shape and siz	and Group B are e)
tate one milar. (D	way in which the living things in Group A to not mention movement, shape and siz	and Group B are e)

33. Three types of plants were placed into 3 identical containers filled with 150ml of water. 50ml of oil was poured into each container to prevent the water from evaporating into the air. One of them is a plastic plant.



The volume of water in each container was recorded on the 9th day in the table below.

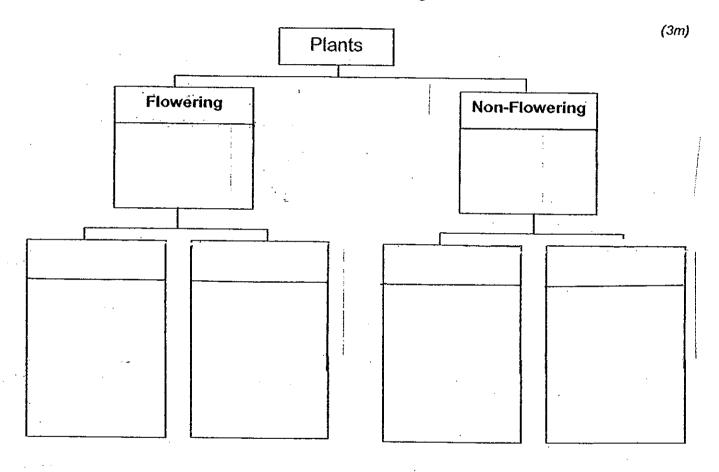
	Container Day 1	Volume of water (ml) Day 9
A	150	130
# B	150	150
C	150	125

Which of the foll	owing containers (A, B or C) contained a plastic pl	ant?
Use the table of	results above to support your answer in (a).	
What does this e	xperiment show about the needs of plants?	<u></u>

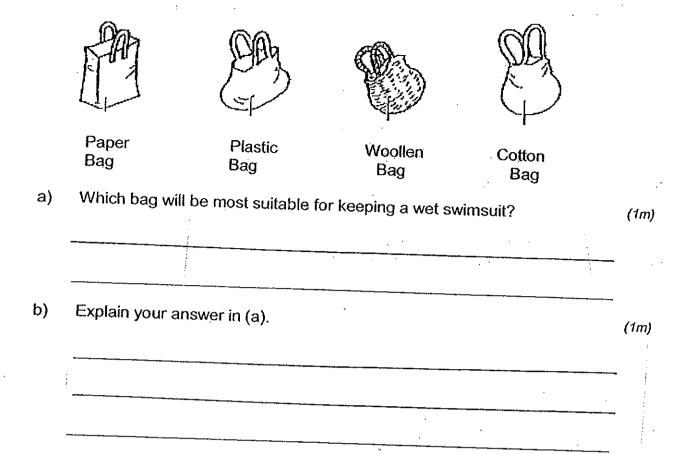
34 The table below shows the characteristics of plants A, B C, D, E and F.

Plant	Reprodu	uce from s	pores	Bears fruits	Weak stems
A				√	
В		✓	······································		√
C		✓ .			✓
,D			4	/	1
Ε	· · · · · · · · · · · · · · · · · · ·	· .		√	
F		√			

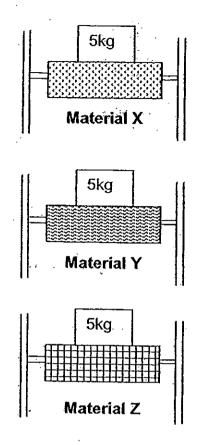
Using the information above, classify plants A, B, C, D, E and F into the classification table below. Provide suitable headings where needed.



35. Below are 4 bags made up of different types of materials.



36. Lyn put a 5 kg weight onto three rods, made from materials X, Y and Z as shown below.



Lyn then recorded her observations in a table as shown below.

Material X	Bent
Material Y	Remained the same
Material Z	Broke

a) Arrange Materials X, Y and Z from the strongest to the weakest.

(1m)

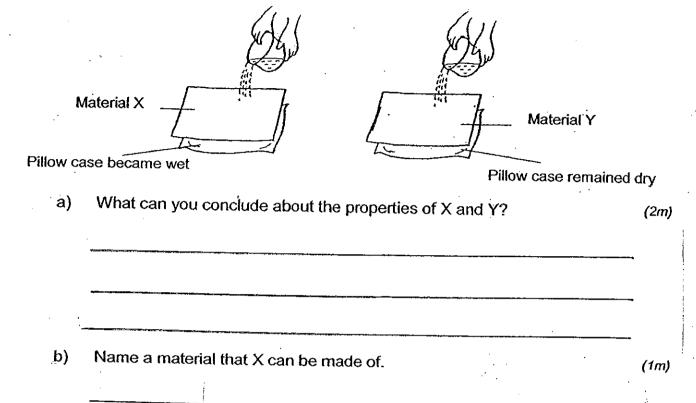
b) Lyn chose Material Y to make a fishing rod.

(1m)

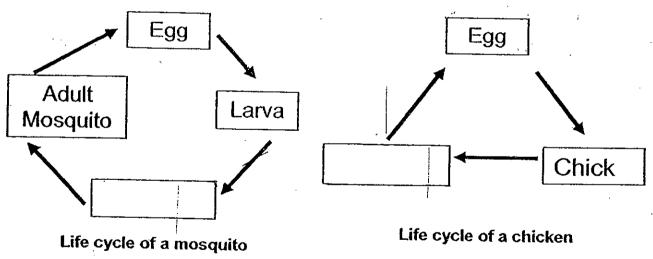
Using her observations above, explain why her choice was correct.

Material B Material A	Material C Material B	Material D
The regular		
The results were as sh - B scratches A - C scratches B - D scratches C	own below:	
Which material is the m	nost suitable for making spe	ctacle lens?
		,
Explain your answer in	(a).	

38. A sheet of Material X and Material Y were placed on a dry pillow case. 200ml of water was poured slowly onto each material. After a while, the pillow case below Material X was wet but the pillow case below Material Y remained dry.



39. The life cycles of a mosquito and a chicken are shown below.

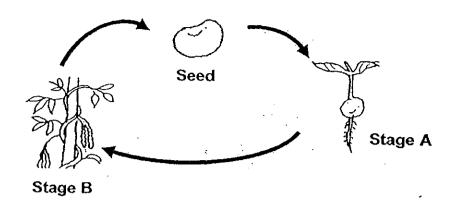


a) Complete the life cycles by filling in the boxes above.

(1m)

b) Which animal, the mosquito or the chicken, has a life cycle that is similar (2m) to that of a beetle?
In what ways are they similar?

40. The diagram below shows the life cycle of a plant.



a) Name the stages, A and B in the table below.

(1m)

Stage A	
Stage B	

b) At which stage, A or B, will the plant be able to reproduce?

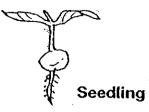
(1m)

Stage

c) Give a reason for your answer in (b).

(1m)

41. Jacob carried out an experiment on two seedlings, A and B.

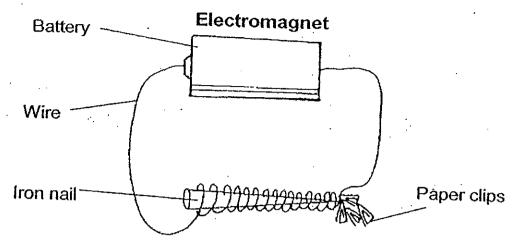


He then recorded the increase in height of seedlings $\bf A$ and $\bf B$ after 5 days. Study the table below and answer the following questions.

Seedling	Increase in height of seedlings after 5 days	Type of plant	Amount of water given per day	Location of seedling		
A	2 cm	Bean plant	20 ml	In a covered box		
В	10 cm	Bean plant	20 ml	Near the window		

a) From the information above, what was the	ne aim of the experiment? (1m)
It was to find out whether the seedlings.	affects the height of
b) State two conditions that a seedling need	ds in order to survive.
(i)	(2m)
(ii)	

42. Edward set up an experiment below. He wanted to find out whether the number of batteries will increase the strength of an electromagnet.



a) In order to have a fair experiment, which conditions in the table below must he follow?
 In the table below, put a tick (✓) against the correct conditions.

(2m)

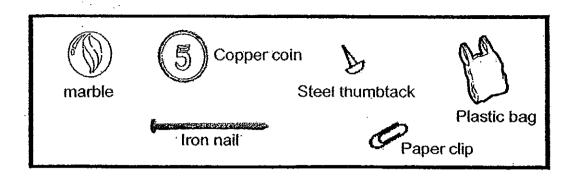
- (i) The same type of wire must be used
- (ii) The number of coils of the wire must be different
- (iii) The number of batteries must be different
- (iv) The type of batteries used must remain the same
- b) Other than number of batteries, name two other variables that will affect the strength of an electromagnet.

(2m)

(i) _____

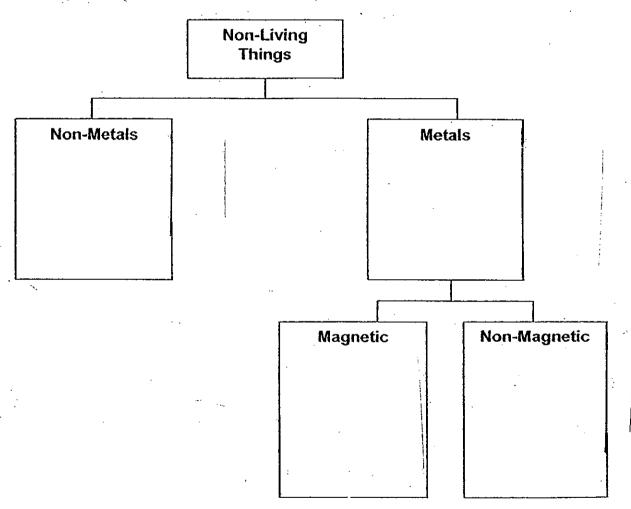
(ii) _____

43. The box below shows a group of objects.



Classify the objects in the classification table below.

(4m)



Siti wanted to investigate the strength of different types of magnets by changing the distance between the iron ball and the types of magnet. Iron Ball Magnet Distance between iron ball and magnet

✓ - attracted the iron ball

44.

X - did not attract the iron ball

Distance between iron ball and magnet	Rod Magnet	Ring Magnet	U-shaped magnet
5 cm	√	7	
10 cm	√		V
15 cm		V	✓
<u> </u>		√	X

Explain your answer in (a)	
Explain your answer in (a)	
Using the same experimental sis the strongest magnet?	etup, what can Siti do to find out which

End of Part 2

Setters: Mdm Doris Heng

Mdm Fathlon Tawfik



EXAM PAPER 2010

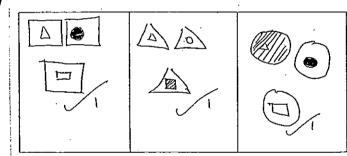
SCHOOL: HENRY PARK PRIMARY SUBJECT: PRIMARY 3 SCIENCE

TERM: SA2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17
2	1	თ	4	1	4	4	2	4	2	2	3	4	4	1	3	2

Q18	Q19	Q20	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	Q30
4	1	З	3	4	1	2	4	з	4	3	2	4

31)



- 32a) Group A can move freely while group B cannot move freely.
- 32b) They all need air, food and water.

33a) B

33b) B did not use any water and plastic plants do not need water as they are non-living things.

33c)Plants need water to survive

34) Flowering - A, D, E

Has weak stems - D
☐ Does not have weak stems - A, E

Non-Flowering

Has weak stems - B,C

Does not have weak stems - F

35a) Plastic bag

35b) The water bag is water proof so it will not absorb the water from the wet swimming suit.

36a) Y,X,Z

36b) Material Y is the strongest as it can withstand the weight.

37a) D

37b) D is the hardest and cannot be scratched by other materials.

38a) X is not waterproof as the pillowcase became wet while Y is waterproof as no water can leak through and wet the pillowcase.

38b) Paper

39a) Pupa

Adult Chicken

39b) Mosquito. It has the same number of stages as the beetle.

40a) Stage A -seedlings

Stage B -Adult Plant

40b) Stage B

40c) It has already grown fruit and inside the fruit there are seeds.

41a) The location

41bi) Sunlight

41bii) water

42ai) √

42aiii) √

42aiv) √

42bi) Number of coils

42bii) The voltage of the batteries

43) Non-metals - Marbles, Plastic bag

Metals - Copper coin, steel thumbtack, iron nail, paper clip

Magnet - copper coin

Magnetic - Steel thumbtack, iron nail, paper clip

44a) U-shaped magnet

44b) It could not attract the iron ball 15cm away while the other magnets could attract the iron ball 15cm away.

44c) She could try to see if the rod magnet or the ring magnet can attract the iron ball 20cm away.