

METHODIST GIRLS' SCHOOL

Founded in 1887



MID- YEAR EXAMINATION 2016

PRIMARY 3

SCIENCE

BOOKLET A

Total Time for Booklets A and B: 1 hour 10 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Shade your answers in the Optical Answer Sheet (OAS) provided.

Name: _____ ()

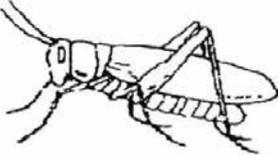
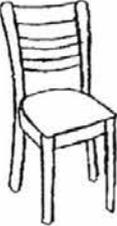
Class: Primary 3. _____

Date : 12 May 2016

This booklet consists of 12 printed pages including this page.

For each question from 1 to 20, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval on the Optical Answer Sheet (OAS). [40 marks]

1. Study the classification table.

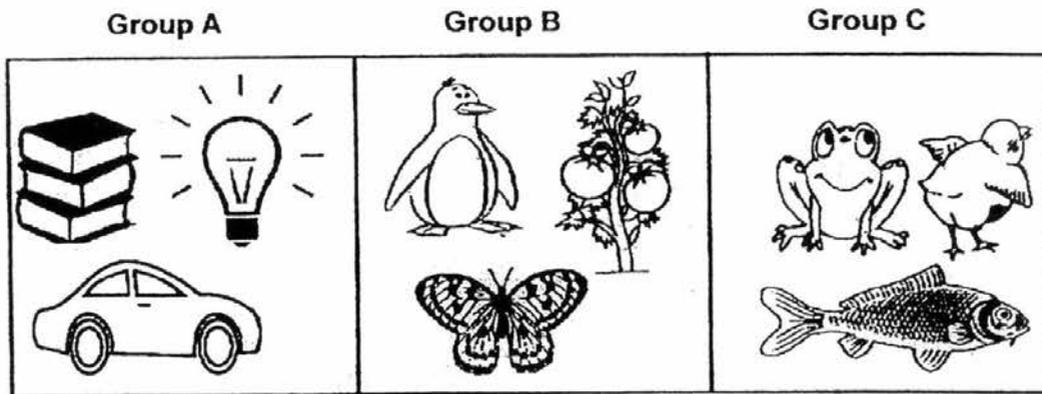
Group A	Group B
 <p data-bbox="440 830 600 864">grasshopper</p>	 <p data-bbox="884 830 959 864">guitar</p>
 <p data-bbox="496 1186 560 1220">plant</p>	 <p data-bbox="815 1174 879 1208">chair</p>

Which one of the following statements is true?

- (1) Group A needs air to survive.
- (2) Group A does not need food to stay alive.
- (3) Group B can respond to changes around it.
- (4) Group B can move by itself from place to place.

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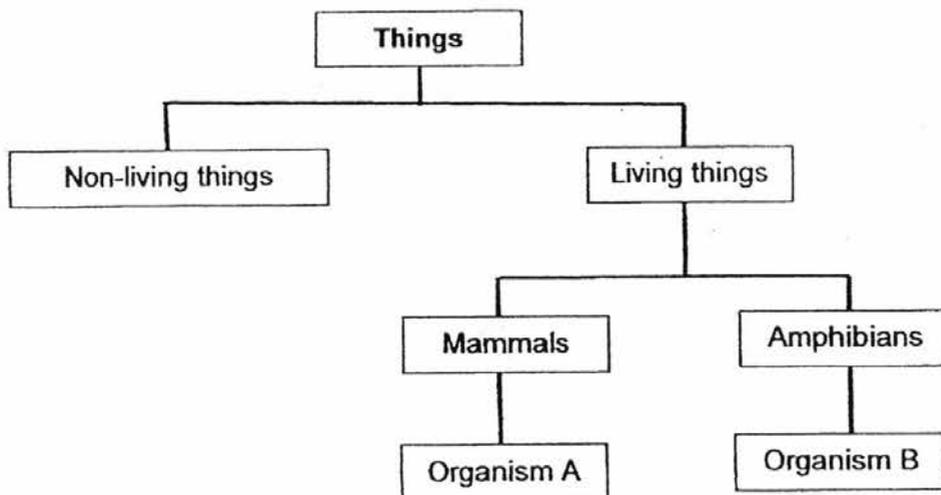
2. Study the groups of things below.



Which of the following is true?

- (1) Groups A and C can reproduce.
- (2) Groups B and C need food to stay alive.
- (3) Groups B and C cannot move on their own.
- (4) Groups A and B cannot respond to changes.

3. Study the classification diagram below.

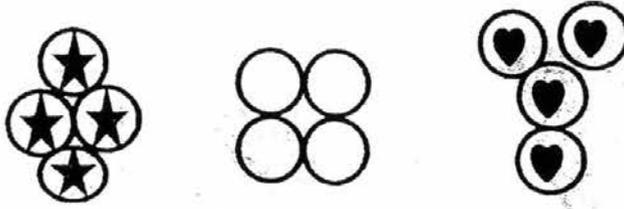


Which one of the following options best represents Organisms A and B?

	Organism A	Organism B
(1)	bat	salamander
(2)	whale	snake
(3)	anteater	lizard
(4)	platypus	crocodile

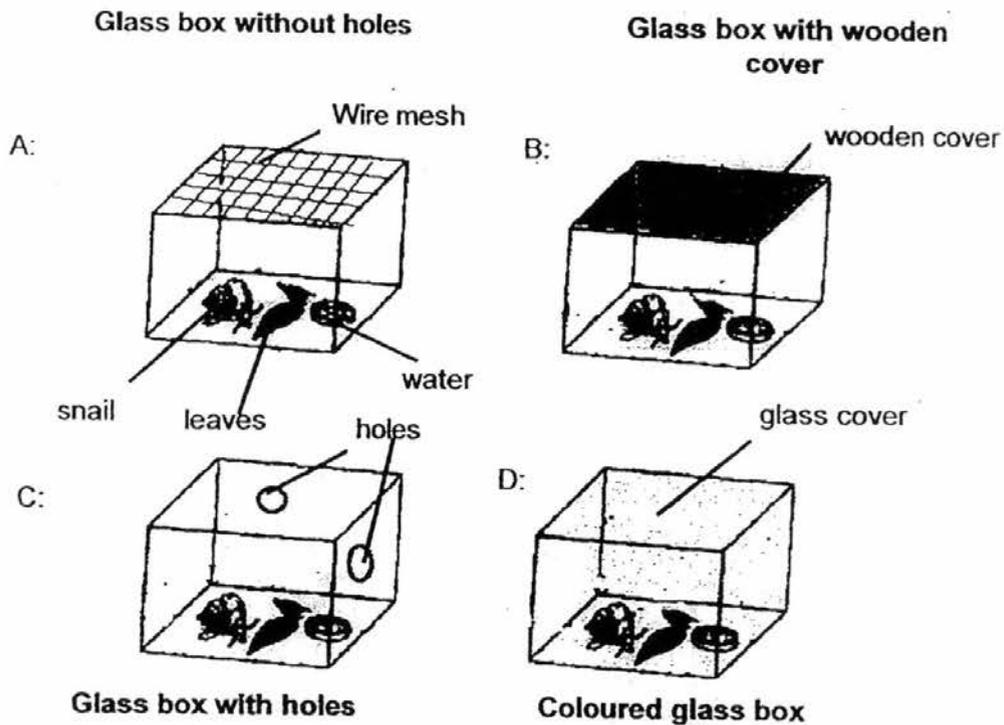
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4. Raju had a container of plastic balls. He classified them into three groups.



Raju has classified the balls according to their _____.

- (1) size
 - (2) shape
 - (3) design
 - (4) arrangement
5. A snail, a dish of water and two leaves were placed inside each of the glass boxes.



In which two set-ups will the snail stay alive after a week?

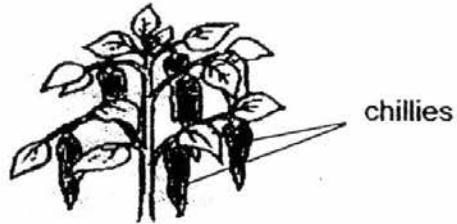
- (1) A and B
- (2) B and C
- (3) A and C
- (4) B and D

(Go on to the next page)

6. The pictures below show parts of a water melon plant and a chilli plant.



Water melon plant



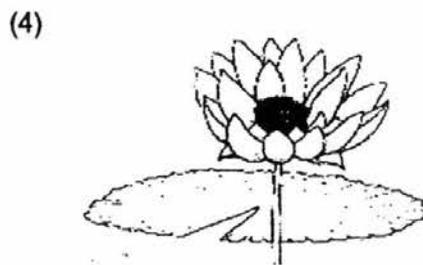
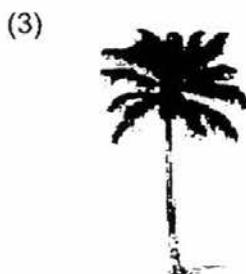
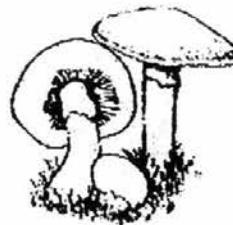
Chilli plant

Which of the following statements best describe them correctly.

- A : They have fruits.
- B : They can make food.
- C : They have strong stems.
- D : They are flowering plants.

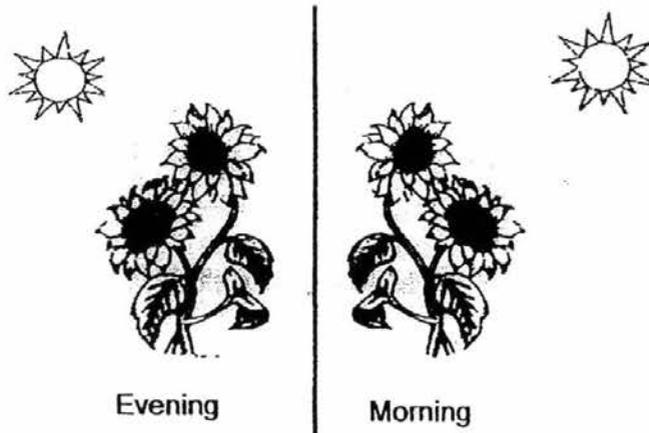
- (1) A and C only
- (2) B and D only
- (3) A, B and D only
- (4) B, C and D only

7. Which one of the following organism is not a plant?



(Go on to the next page)

8. Nancy noticed that her sunflower plant always turns to face the direction of the sun.



Which of the following characteristics of living things must the sunflower have so that it can turn to face the sun?

- A : It can reproduce.
 B : It can respond to changes.
 C : It can move by itself from place to place.

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

9. The pictures below show some animals.

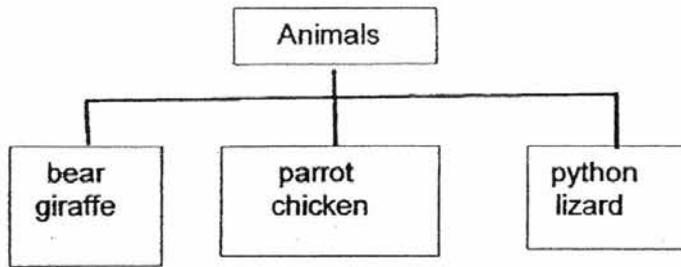


The animals are similar because they all have _____.

- (1) fins
 (2) hair
 (3) wings
 (4) feathers

(Go on to the next page)

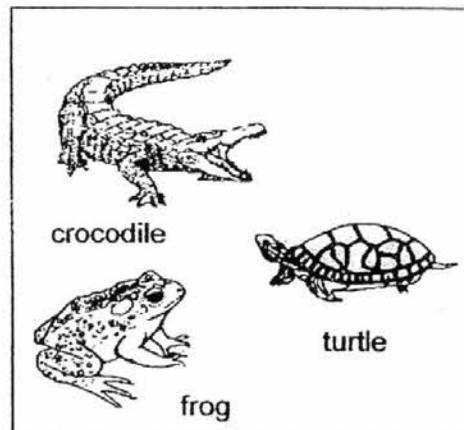
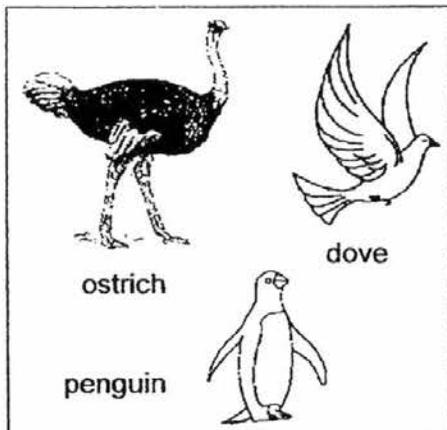
10. Study the classification chart below,



Which one of the characteristics is used to classify the animals?

- (1) The food they eat.
- (2) The way they move.
- (3) The place they live in.
- (4) Their outer body covering.

11. The animals below are classified into two groups as shown below.

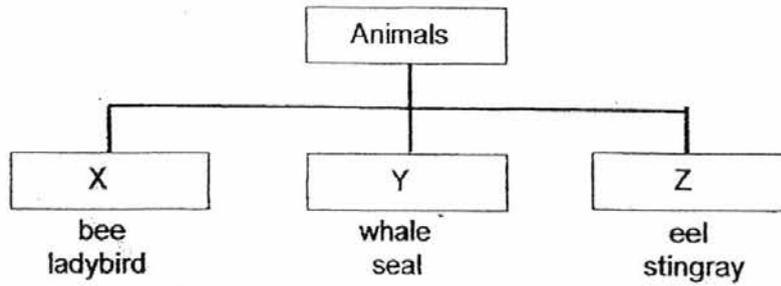


Which one of the animal is placed in the wrong group of animals?

- (1) dove
- (2) frog
- (3) turtle
- (4) ostrich

(Go on to the next page)

12. Study the classification chart below.



Which one of the following options show what X, Y and Z represent?

	X	Y	Z
(1)	bird	fish	amphibian
(2)	insect	mammal	fish
(3)	bird	amphibian	mammal
(4)	reptile	mammal	fish

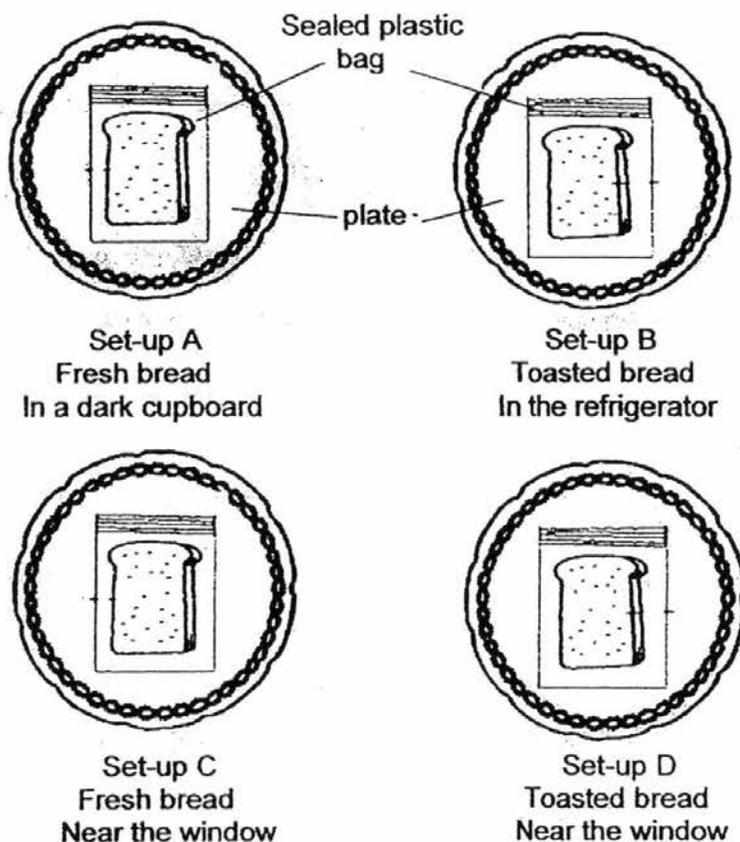
13. Which of the following statements are true about fungi?

- A : They are non-green plants
- B : They reproduce by spores.
- C : They cannot make their own food.
- D : They feed on other living or dead organisms.

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

(Go on to the next page)

14. Willy conducted an experiment to find out if mould grew faster with light. He prepared four set-ups, A, B, C and D as shown below.

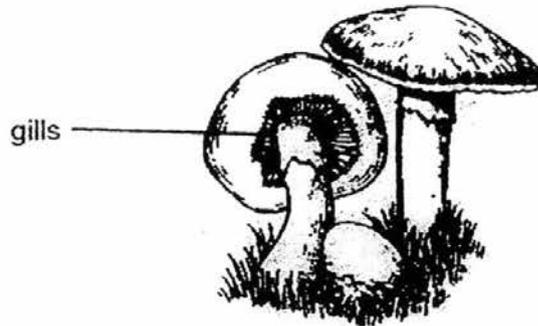


Which two set-ups should Willy use to compare the results?

- (1) A and B only
 - (2) C and D only
 - (3) A and C only
 - (4) B and D only
15. What are the similar characteristics between yeasts and bacteria?
- A : They are both fungi.
 B : They can reproduce.
 C : They respond to changes.
 D : They are both micro-organisms.
- (1) A and B only
 - (2) C and D only
 - (3) A, B and D only
 - (4) B, C and D only

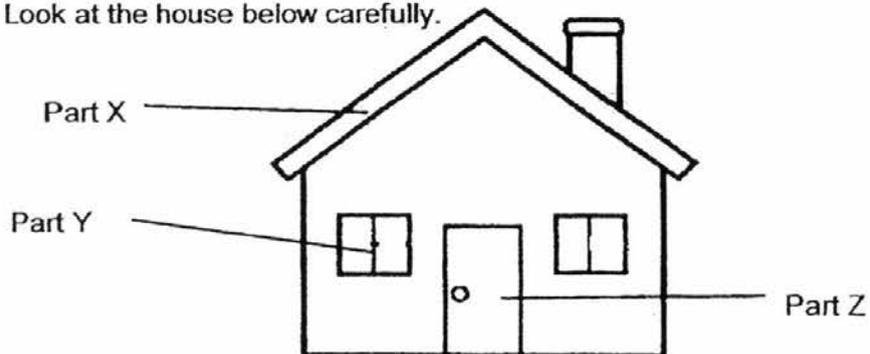
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16. The gills of the mushroom produce _____.



- (1) food
- (2) spores
- (3) mould
- (4) bacteria

17. Look at the house below carefully.

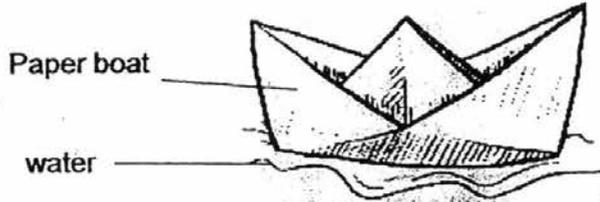


Which one of the following options shows the correct materials used for Parts X, Y and Z?

	X	Y	Z
(1)	metal	glass	wood
(2)	ceramic	metal	rubber
(3)	ceramic	glass	wood
(4)	wood	metal	rubber

(Go on to the next page)

18. Ali made a paper boat out of newspaper. He put the boat into a basin of water and it floated for a while. After five minutes, the boat began to sink into the water.



Why did the paper boat sink into the water after five minutes?

- (1) Paper is flexible.
 - (2) Paper is not strong.
 - (3) Paper is waterproof.
 - (4) Paper absorbs water.
19. The following table shows the properties of four materials

Materials	Is it strong?	Is it flexible?	Is it light?
A	Yes	Yes	No
B	Yes	No	Yes
C	No	No	Yes
D	No	Yes	No

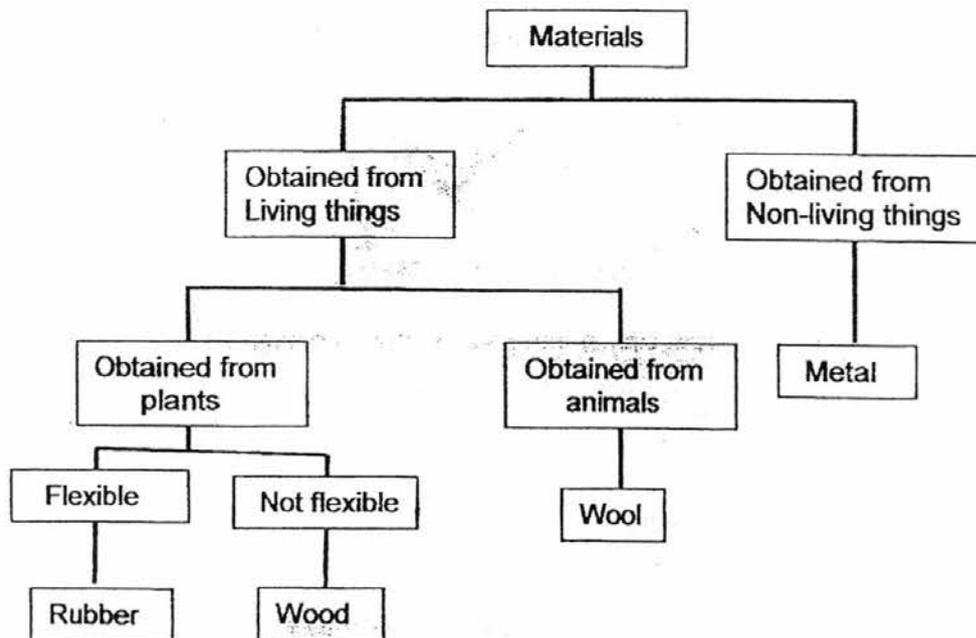
Which one of the following materials would you use to make Part X of the remote control as shown below?



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

(Go on to the next page)

20. Study the classification chart below.



What is the difference between metal and wood?

- (1) Metal is strong but wood is not.
- (2) Metal is flexible but wood is not.
- (3) Metal and wood are obtained from living things.
- (4) Metal is obtained from non-living things but wood is obtained from living things.

End of Booklet A

METHODIST GIRLS' SCHOOL
Founded in 1887



MID-YEAR EXAMINATION 2016
PRIMARY 3
SCIENCE

BOOKLET B

Total Time for Booklets A and B: 1 hour 10 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.

Name: _____ ()

Class: Primary 3. _____

Date : 12 May 2016

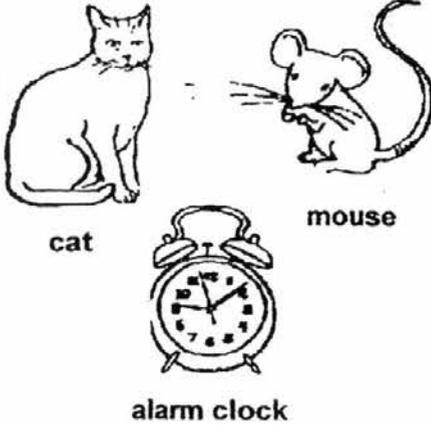
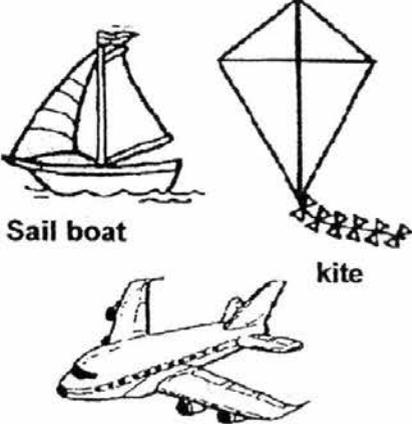
Booklet A	40
Booklet B	20
Total	60
Parent's Signature	

This booklet consists of 8 printed pages including this page.

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For questions 21 to 28, write your answers in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part question.
[20 marks]

21. Study the classification table below.

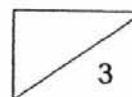
Group X	Group Y
 <p>cat</p> <p>mouse</p> <p>alarm clock</p>	 <p>Sail boat</p> <p>kite</p> <p>aeroplane</p>

(a) What is classified wrongly in the table above? [1]

(b) Write down two different characteristics between Group X and Group Y. [2]

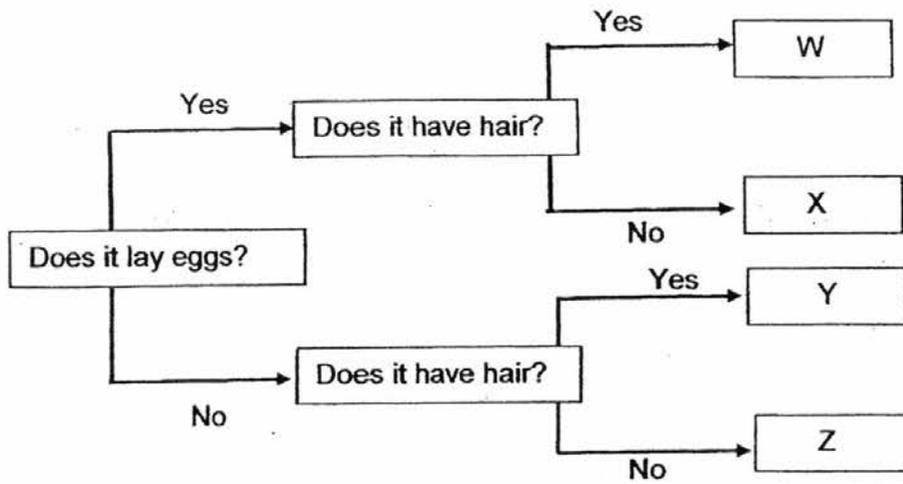
Characteristic 1: _____

Characteristic 2 : _____



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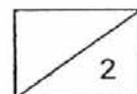
22. The flow chart below shows how some animals are classified.



Which letter, W, X, Y or Z best represents the animals below?

[2]

(a) 	
(b) 	



(Go on to the next page)

23. Jessie was taking a stroll in her garden when she came across some organisms, A and B, growing on a rotting log. She took pictures of the two organisms and labelled them as non-flowering plants. Her teacher told her that she had labelled them wrongly.



Organism A



Organism B

- (a) Why did her teacher say that her labelling was wrong? Give a reason for your answer. [1]

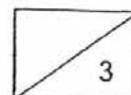
- (b) Based on the pictures above, where do the organisms get their food from? [1]

The picture below shows a French bean plant.



Organism C

- (c) What is the difference between Organism A and the Organism C with regard to their method of reproduction? [1]



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24. Sue grew some seedlings in a pot and placed it near a window as shown in Diagram 1. Two days later, she observed that the seedlings were growing as shown in Diagram 2.

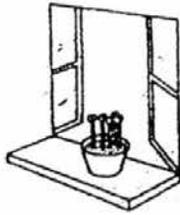


Diagram 1

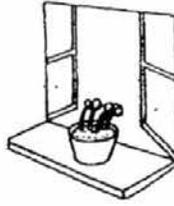


Diagram 2

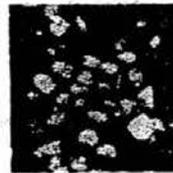
- (a) What difference do you see between the seedlings in Diagrams 1 and 2? [1]

- (b) Explain what caused the difference.

25. The pictures below show two organisms, the mould on the orange and the Dragon's Scale fern.



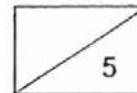
Mould growing on an orange



Dragon's Scale fern

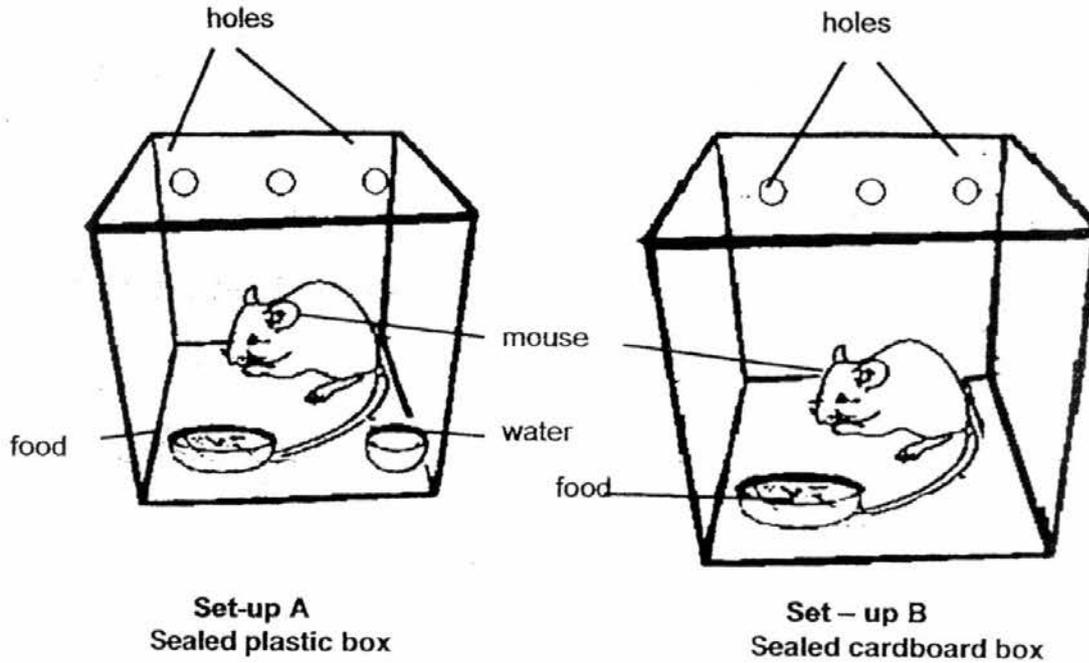
- (a) Explain why there was mould growing on the orange? [2]

- (b) Based on the pictures above, how do the mould and the Dragon's Scale fern differ in the way they obtain nutrition for their growth? [1]



(Go on to the next page)

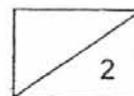
26. Ali conducted an experiment to find out if mice need water to survive. He placed a mouse into a plastic container and another into a cardboard box. He then put the same amount of food into the two boxes. He placed a bowl of water in Set-up A and no water in Set-up B. Next, he placed the boxes in different parts of the house.



Ali's mother told him that his experiment was not fair.

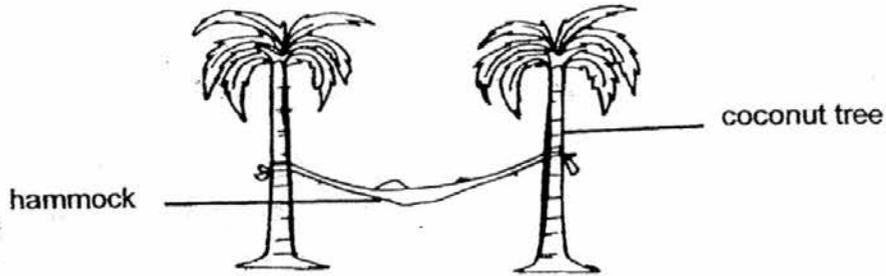
What are two ways the boxes should be kept the same for the experiment to be fair?

[2]



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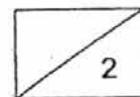
27. Peter went to the beach and tied his hammock in the shade as shown in the diagram below. He wanted to lie on his hammock to rest when he was tired.



- (a) List 2 properties of the material that Peter must consider to make his hammock with and state the reasons why. [2]

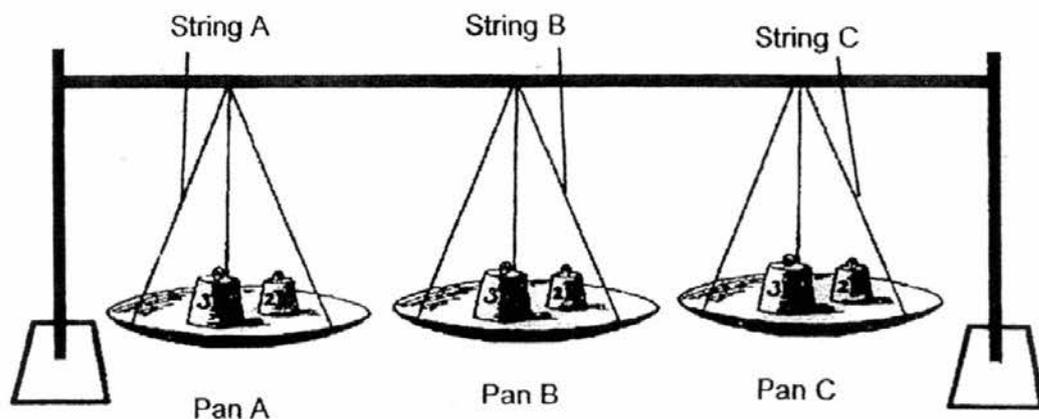
Property 1 : _____

Property 2 : _____



(Go on to the next page)

28. Samy set up the experiment to test the strength of three different strings, A, B and C. The strings are of the same thickness and length.

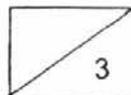


When Samy put two pieces of weights on each pan, String A broke, but string B and C did not break.

He then added another piece of weight on Pan B and Pan C and observed that String C broke.

- (a) What property of the string is Samy trying to test? [1]

- (b) Samy wanted to use one of the strings to make a fishing net. Which string, A, B or C should he choose? Give a reason why he should choose that string. [2]



YEAR : 2016
LEVEL : PRIMARY 3
SCHOOL : METHODIST GIRLS'
SUBJECT : SCIENCE
TERM : SA1

Booklet A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
1	2	1	3	3	3	2	2	3	4
Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
2	2	4	3	4	2	3	4	2	4

Booklet B

- Q21 (a) The alarm clock is classified wrongly.
(b) Characteristic 1 : Group X reproduce but Group Y does not.
Characteristic 2 : Group X needs air, food and water but Group Y does not.
- Q22 (a) Y
(b) X
- Q23 (a) The two organisms A and B are a type of fungi not plants.
(b) The organisms get their food from the rotting log that they grow on.
(c) Organism A reproduce by spores but organism C reproduce by seeds.
- Q24 (a) In diagram 1, the seedings were straight but in diagram 2 the seedings were slanted.
(b) The seedings respond towards light because they need light to make food.

- Q25
- (a) Spores landed on the orange and grew because there is air, moisture and warmth.
 - (b) The Dragon's Scale fern makes their own food but the mould get their nutrition on the dead or living thing they grow on.

Q26 The boxes need to be kept in the same part of the house and the boxes needed to be the same material.

Q27 Property 1 : Material must be strong so that it can withstand his weight.

Property 2 : Material must be flexible so that Peter can lie down comfortably.

- Q28
- (a) Strength
 - (b) String B is the strongest and it is able to take with stand the load of fish.

End