

# METHODIST GIRLS' SCHOOL

Founded in 1887



SEMESTRAL ASSESSMENT 1 2015

PRIMARY 3

SCIENCE

BOOKLET A

Total Time for Booklets A and B: 1 hour 20 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: 14 May 2015

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. Sophia went to the beach and saw some things there. She classified them into 2 groups as shown in the table below.

Group A	Group B
sand	children
hats	dogs
P	Q
sea water	coconut trees

What could "P" and "Q" be?

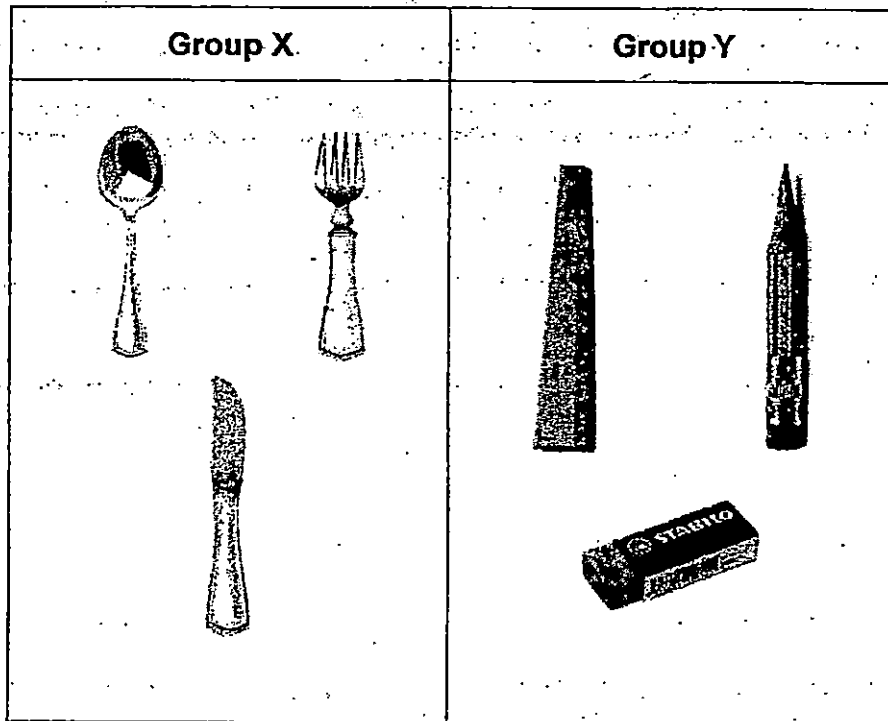
	P	Q
(1)	rocks	lamp-post
(2)	mat	shells
(3)	drinks	seagulls
(4)	crabs	volleyballs

2. Which one of the following observations is correctly matched to the appropriate characteristic of living things?

	Observations	Characteristics
(1)	A squirrel jumps from branch to branch.	Living things reproduce.
(2)	A caterpillar changes into a butterfly.	Living things grow.
(3)	A girl moves her hand away from a hot kettle of water.	Living things need air, water and food.
(4)	A tortoise lays eggs.	Living things responds to changes around them.

(Go on to the next page)

3. Look at the objects in the two groups below.



The above objects are classified according to their \_\_\_\_\_.

- (1) use
- (2) size
- (3) shape
- (4) colour

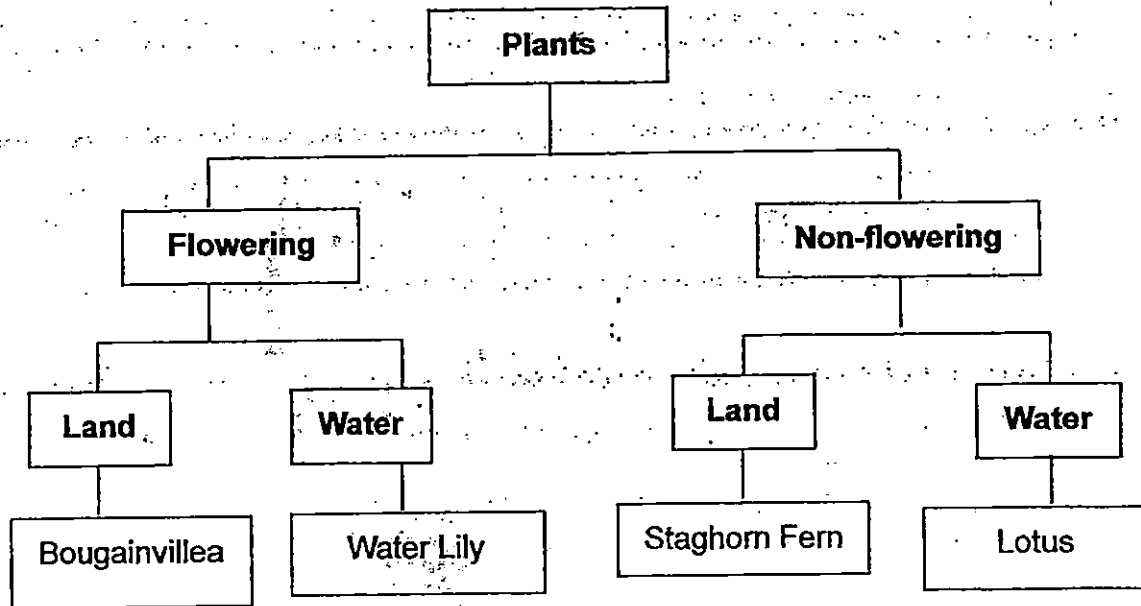
4. Which of the following statements is/are true?

- A: Living things need air and food only.
- B: Only animals that swim need water.
- C: Non-living things cannot move by themselves.
- D: Non-flowering plants cannot reproduce.

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

(Go on to the next page)

5. Study the classification chart below carefully.



Which plant has been **wrongly** classified?

- (1) Lotus
- (2) Water Lily
- (3) Bougainvillea
- (4) Staghorn Fern

6. Study the table below carefully.

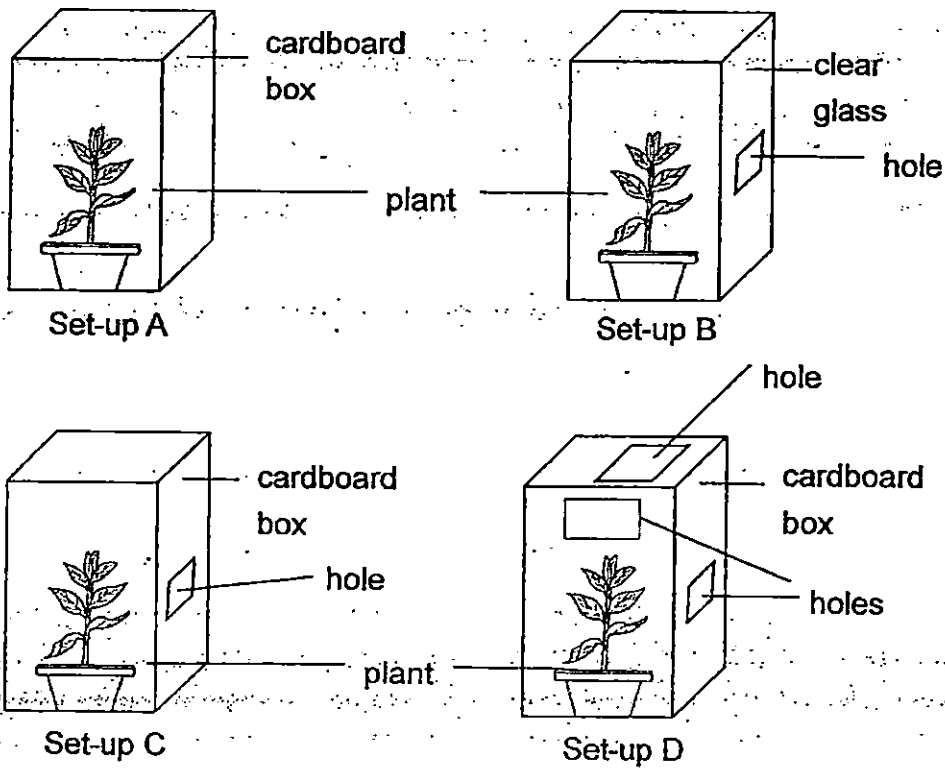
Organism	Does it make its own food?	Can it grow?	Does it grow or live mainly on land?	Can it move by itself?
S	Yes	Yes	Yes	No
T	No	Yes	No	Yes

Which one of the following options represents organisms S and T correctly?

	S	T
(1)	moss	guppy
(2)	mould	tadpole
(3)	monkey	anteater
(4)	hibiscus plant	butterfly

(Go on to the next page)

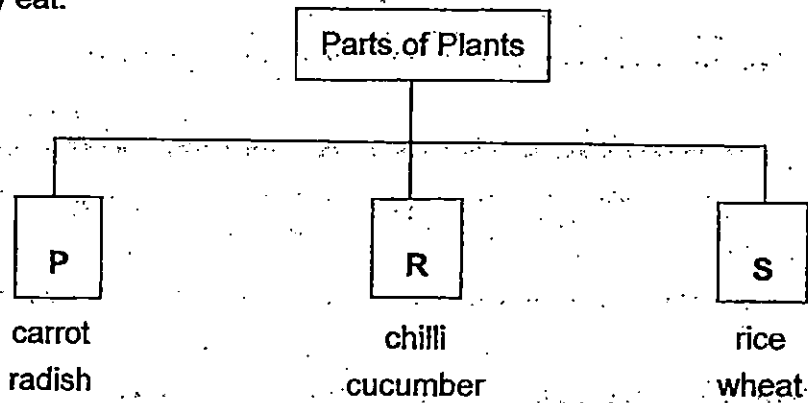
7. John wanted to find out whether plants grow towards the direction of sunlight. He prepared four set-ups, A, B, C, and D as shown below and gave equal amount of water to each pot of plant daily.



Which two of the following set-ups will be able to show the aim of John's experiment after two weeks?

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

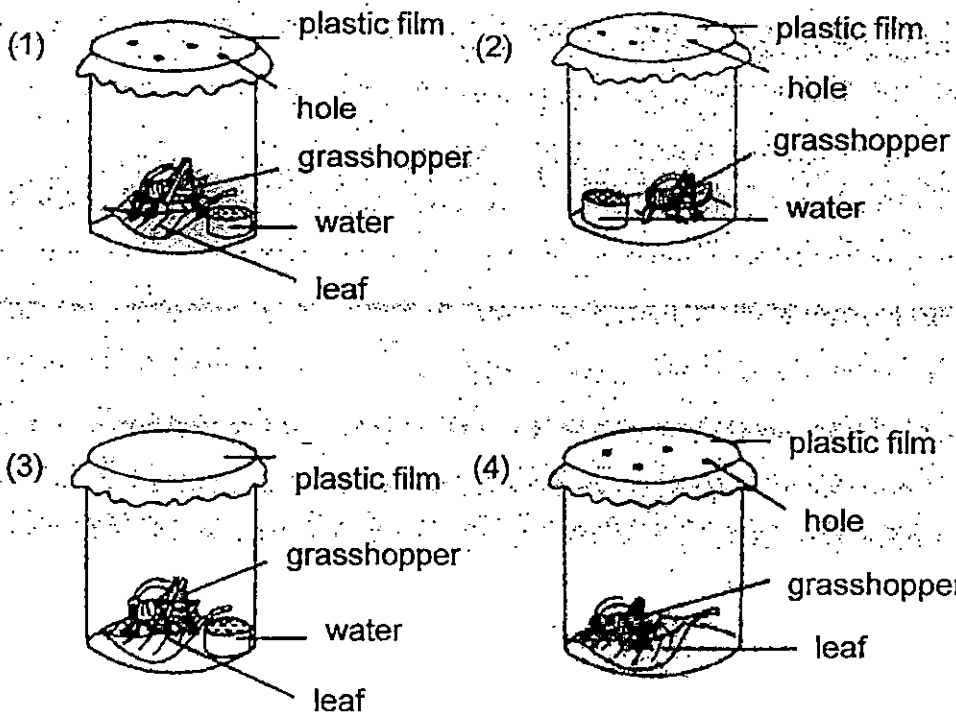
8. The plants below are classified according to the parts of the plant that we usually eat.



What is the correct heading for each group?

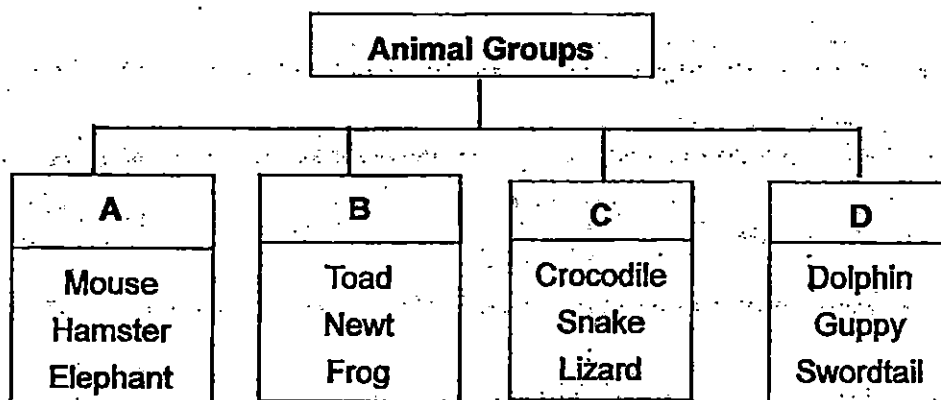
	P	R	S
(1)	Root	Seed	Fruit
(2)	Seed	Fruit	Root
(3)	Fruit	Seed	Root
(4)	Root	Fruit	Seed

9. Rashidah placed four healthy grasshoppers in four different containers. In which container will the grasshopper die first?



(Go on to the next page)

10. Study the classification chart below.



Which one of the groups below has an animal that is classified **wrongly**?

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

11. Peter read a book on Animal X and listed its characteristics as shown below:

A: It lives on land only.

B: It has four legs.

C: It has hair as its outer covering.

D: Its young feed on its mother's milk.

He concluded that Animal X is a mammal.

Which of the above statements enable him to draw his conclusion?

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

(Go on to the next page)

12. Study the table given below.

	Animals		
	X	Y	Z
Does it have legs?	No	Yes	Yes
Does it live in water?	Yes	No	No
Does it fly?	No	Yes	No

Which one of the following options shows correctly what animals X, Y and Z could be?

	X	Y	Z
(1)	Gorilla	penguin	cat
(2)	prawn	whale	snail
(3)	snake	butterfly	guppy
(4)	swordtail	eagle	elephant

13. Some fungi can be seen growing on a tree as shown in the picture below:



Which one of the following statements is true about these fungi?

- (1) The fungi are part of the tree.
- (2) The fungi make food for the tree.
- (3) The fungi obtain nutrients from the tree.
- (4) The fungi climb up the tree trunk to reach for more sunlight.

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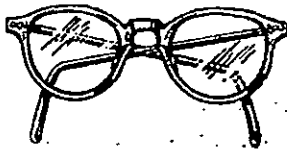


14. Which one of the following options best describes the three organisms below?

	Fungi	Bacteria	Mould
(1)	They reproduce by spores.	Some of them are useful to us.	They do not make their own food.
(2)	They do not make their own food.	They reproduce from spores.	They belong to a group of living things called fungi.
(3)	They feed on plants and animals dead or alive.	All of them are harmful to us.	They are not micro-organisms.
(4)	They are all poisonous.	They are living things.	They do not belong to a group of living things called fungi.

15. Which one of the following can be used to view bacteria?

(1)



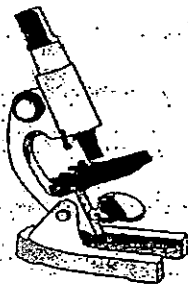
spectacles

(2)



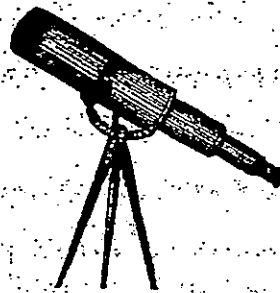
magnifying glass

(3)



microscope

(4)



telescope

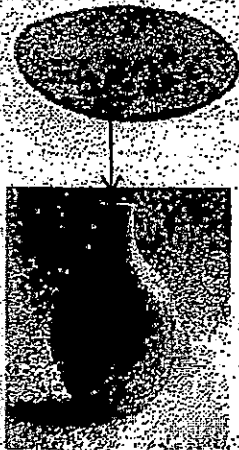
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16. Nathanael has written down four statements in his science activity book as shown below before his science lesson on fungi.

Four things I know about fungi:
A: Fungi reproduce by spores.
B: Puffball is a type of fungi.
C: Fungi do not feed on living organisms.
D: Bread mould is a type of useful fungi.

After his science lesson, which statement(s) would he identify as **incorrect**?

- (1) A only  
 (2) C only  
 (3) A and B only  
 (4) C and D only
17. Serena flattened a ball of soft clay and remodelled the entire clay into a vase.



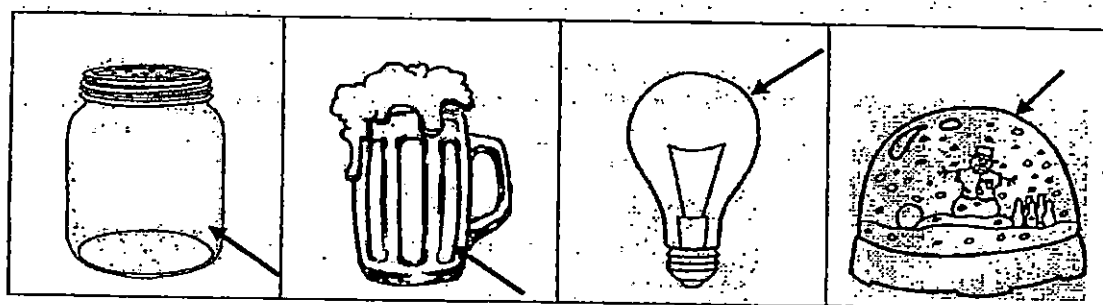
Which of the following properties of the clay had **not** gone through changes?

- A: Mass  
 B: Shape  
 C: Absorbency  
 D: Transparency

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

(Go on to the next page)

18. Material X was used to make a part of each object as shown below, as indicated by the arrows.



Jam jar

Beer mug

Light bulb

Snow globe

According to the objects made, which two important properties does Material X have that makes it suitable to make the part of each object?

A: Waterproof

B: Transparent

C: Sinks in water

D: Breaks easily

(1) A and B

(2) A and C

(3) B and D

(4) C and D

19. Mrs Nathan is choosing a material from the table below to make a blanket for her niece.

	Material A	Material B	Material C	Material D
<b>Able to float</b>	Yes	No	Yes	No
<b>Easy to wash</b>	No	Yes	No	Yes
<b>Able to keep warm</b>	No	Yes	Yes	No
<b>Light and waterproof</b>	Yes	No	No	Yes

Which material should she choose?

- (1) Material A
  - (2) Material B
  - (3) Material C
  - (4) Material D.
20. Shania had four different materials W, X, Y and Z of the same size and thickness. She took the mass of each material before putting them into a basin of water. She took the mass of each material again after 30 minutes. She then recorded her observations in the table below.

Material	Mass before putting into basin of water (grams)	Mass after putting into water for 30 minutes (grams)
<b>W</b>	5	5
<b>X</b>	8	11
<b>Y</b>	4	12
<b>Z</b>	9	13

Which material is most suitable to make a cloth diaper?

- (1) W
- (2) X
- (3) Y
- (4) Z

# METHODIST GIRLS' SCHOOL

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## SEMESTRAL ASSESSMENT 1 2015

PRIMARY 3

SCIENCE

BOOKLET B

Total Time for Booklets A and B: 1 hour 20 minutes

### INSTRUCTIONS TO CANDIDATES

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

Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

Name: \_\_\_\_\_ ( )

Class: Primary 3. \_\_\_\_\_

Date : 14 May 2015

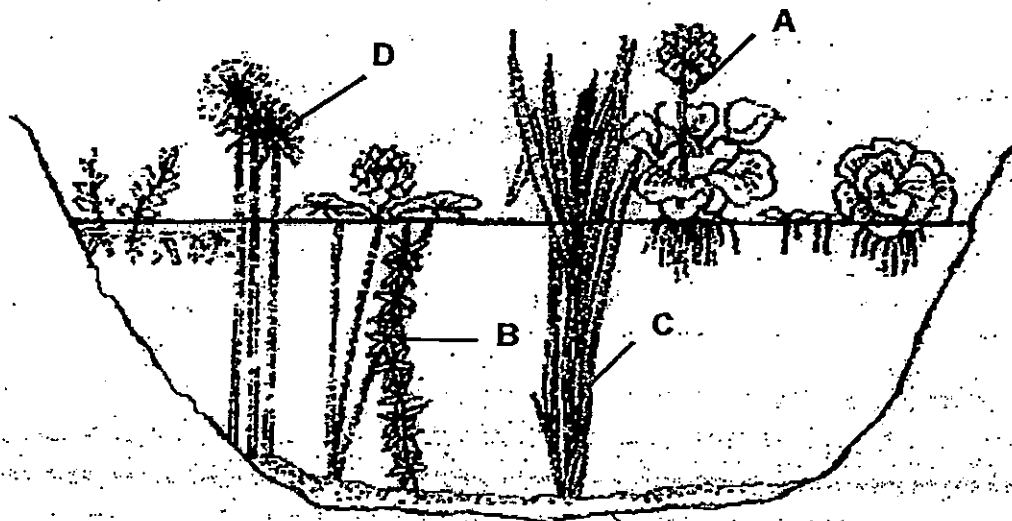
Booklet A	40
Booklet B	20
Total	60
Parent's Signature	

This booklet consists of 10 printed pages including this page.

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]

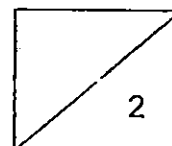
21. Aishah studied the water plants found in her school pond as shown in the picture below.



(a) Classify the plants A, B, C and D in the table below by writing the letters clearly under the correct heading.

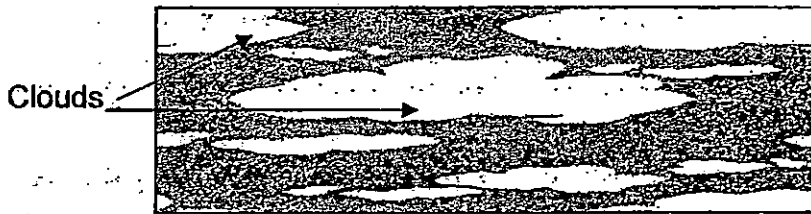
[2]

Plant that floats on the water surface	Plant that grows from the bottom of the pond



(Go on to the next page)

(b) Aishah looked up and saw some clouds in the sky.



She concluded that clouds are living things because she noticed that clouds could do the following:

- (i) Grow in size
- (ii) Grow in numbers
- (iii) Move across the sky

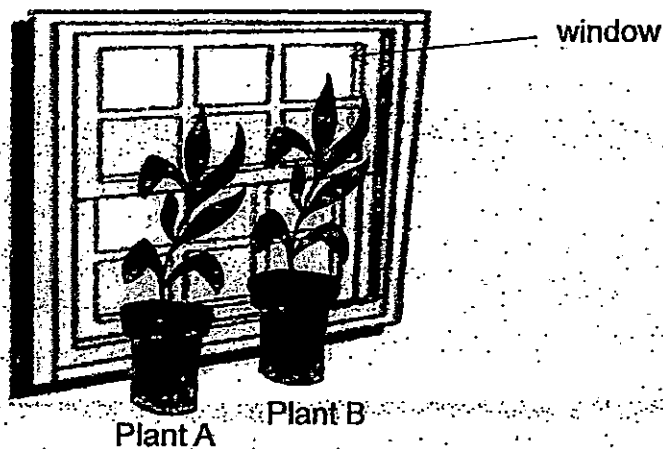
Is Aishah correct to say that clouds are living things? Give a reason for your answer. [1]

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22. Mrs Gavinda conducted an experiment. She placed 2 similar potted plants, Plant A and Plant B, near a window. For a period of one month, she watered Plant A daily and did not water Plant B at all.

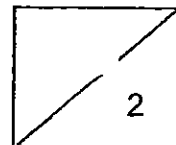


(a) What do you think Mrs Gavinda was trying to find out? [1]

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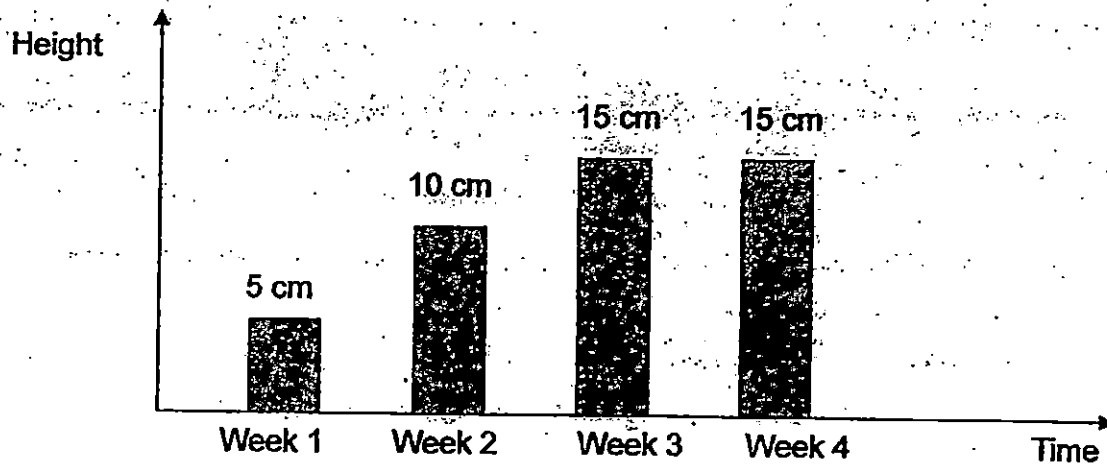


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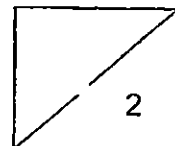
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- (b) Mrs Gavinda observed a change in height for one of the plants over a period of 4 weeks. She then drew a bar graph as shown below.



With reference to the given graph, read the statements and write 'T' for True and 'F' for False in the corresponding boxes. [2]

Statement	Write 'T' for True and 'F' for False
(i) <b>Based on the graph only</b> , Mrs Gavinda recorded the lowest height of the plant in week 1.	
(ii) The plant was taller in week 2 than in week 4.	
(iii) There was no change in the height of the plant between week 3 and 4.	
(iv) The plant grew faster from week 1 to 2 than from week 2 to week 3.	



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23. The animals below belong to the same group of animals.



Animal A



Animal B

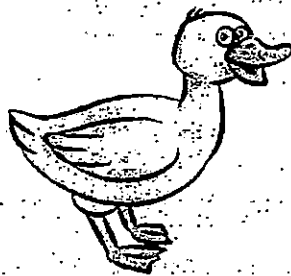
(a) Why are Animals A and B able to stay on land for a short period of time but not the fish? [1]

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(b) Look at Animal C shown below.

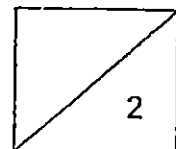


Write down one common body part for both Animals B and C. Explain how the body part helps in their movement. [1]

(i) Body part: \_\_\_\_\_

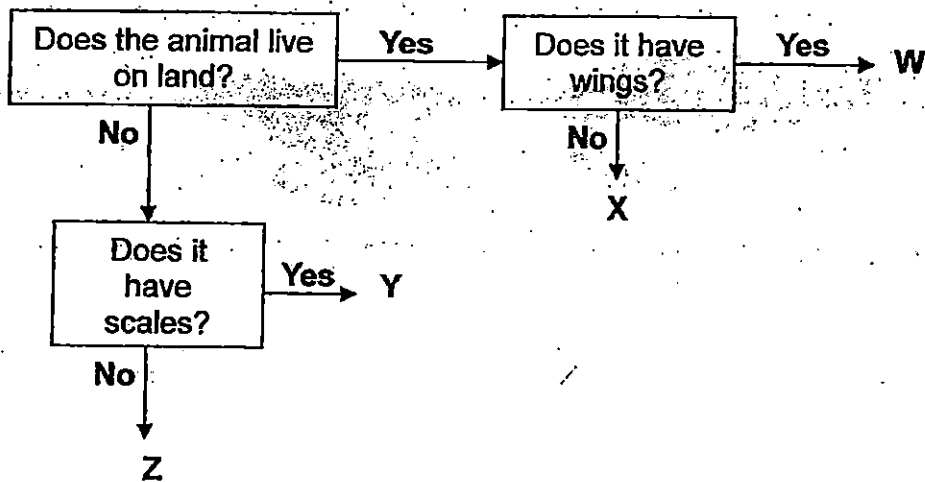
(ii) How the body part helps in their movement: \_\_\_\_\_

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24. Naomi classified four animals into groups, W, X, Y and Z, using the flow chart below.



- (a) State one characteristic that is different between animals W and Z. [1]

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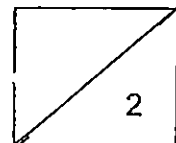


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- (b) Which letters W, X, Y or Z, best represent the animals below? [1]

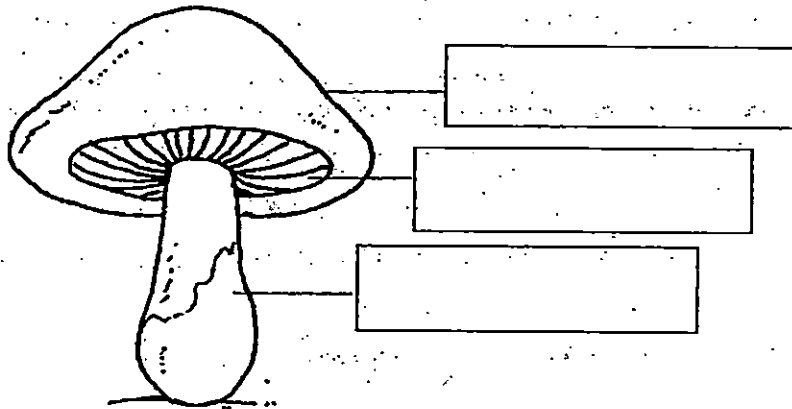






25(a) Label the three parts of the mushroom below.

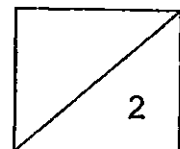
[1½]



(b) Name a non-flowering plant that also reproduces in the same way as the mushroom above.

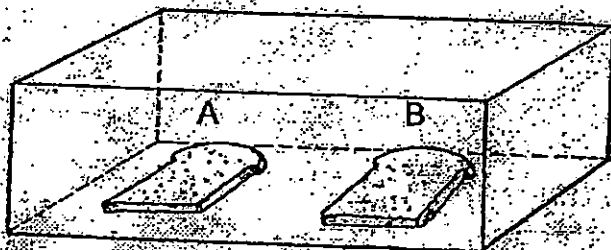
[½]

\_\_\_\_\_

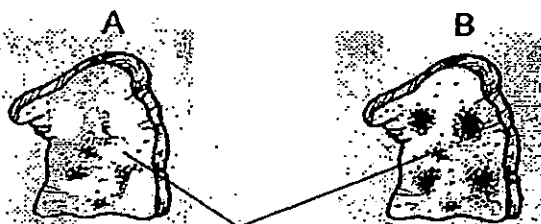


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26. Hock Seng conducted an experiment. He had two pieces of bread, A and B, and he put both pieces of bread inside a container as shown below.



After 10 days, he removed both pieces of bread from the <sup>container</sup>. He saw that both pieces of bread had some black spots on them. His science teacher told him that the black spots were living things.



black spots

- (a) What could the black spots possibly be and which group of living things do they belong to? [1]

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- (b) What is the difference between the amount of black spots on bread A and B? [1]

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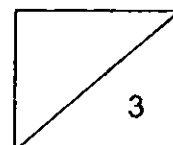
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- (c) Suggest a reason for your answer in (b). [1]

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27. The picture below shows a padlock.

padlock

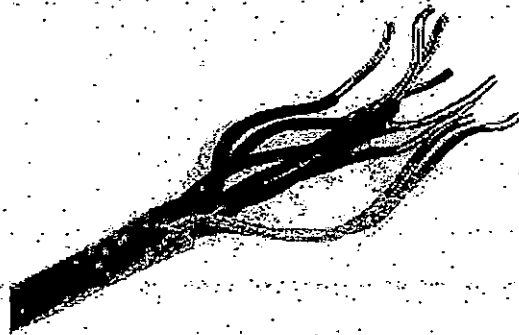


- (a) Explain how the property of metal makes it suitable for the purpose of a padlock. [2]

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- (b) Metal is also used to make electrical wires as seen above. Given the same material, list a property that is not stated in (a) but necessary for making the electrical wire. [1]

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3

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28. On their way to school, four children were caught in heavy rain. Each of them picked the following items to shield themselves from the rain and ran for 5 minutes before they could reach school.

Amy chose the newspaper.

Bala chose a child's jacket made of wool only.

Chris chose a thin metal sheet (same size as the newspaper).

Danny chose a plastic picnic mat (same size as the newspaper).

- (a) Which two children remained relatively dry when they reached school? [1]

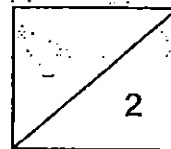
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- (b) What is the common property of the materials that allows both children to stay dry? [½]

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- (c) Besides the property listed in question 28(b), state another property that is necessary to make a raincoat. [½]

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## EXAM PAPER 2015

LEVEL : PRIMARY 3

SCHOOL : METHODIST GIRLS' SCHOOL

SUBJECT : SCIENCE

TERM : SA1

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

Q21. Plants that floats on the water surface : - A

Q21. Plants that grow from the bottom of the pond : - C, B, D

Q21b. No, Clouds are not living things as they do not need air, food and water to survive.

Q22a. She was trying to find out whether water would affect plants from growing.

Q22b. (i) TRUE (ii) FALSE (iii) TRUE (iv) FALSE

Q23a. Fish breathe through gills and cannot live on land but Animals A and B breathe through lungs on land and are able to survive on land and water.

Q23b. (i) Webbed feet (ii) It helps them to swim when they are in water.

Q24a. Animal W lives on land but animal Z does not.

Q24b. Penguin - W Fish - Y

Q25a. SEE PICTURE - Next page Q25b. Moss

Q26a. The black spots are mould and they belong to the fungi group.

Q26b. The amount of black spots on bread A are fewer than the amount of black spots on bread B.

Q26c. Bread B could have had more moisture than bread A.

Q27a. Metal is strong and will not break easily when it is pulled, so the valuables will not be stolen away.

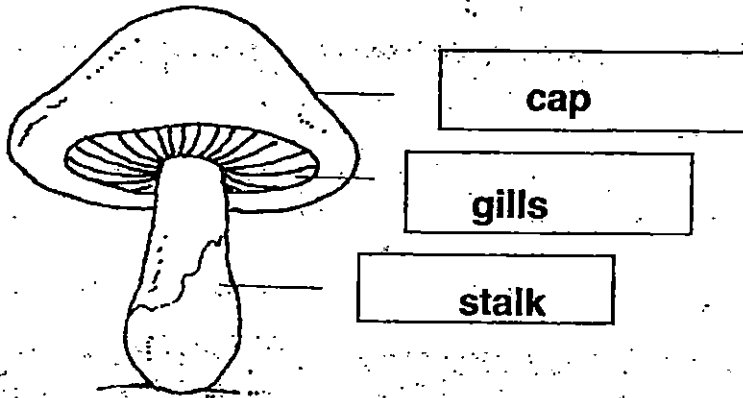
Q27b. Metal is a good conductor of electricity.

Q28a. Chris and Danny

Q28b. The materials that they chose were both water proof.

Q28c. The material needs to be flexible.

Q25a



THE END