

METHODIST GIRLS' SCHOOL

Founded in 1887



MID-YEAR EXAMINATION 2011

PRIMARY 3

SCIENCE

BOOKLET A

Total Time for Booklets A and B: 1 hour 45 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: 10 May 2011

This booklet consists of 13 printed pages including this page.

For each question from 1 to 25, 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.

(50 marks)

1. Which of the following is true about living things?
 - (1) The young and the adult do not always look alike
 - (2) The young and the adult eat the same type of food
 - (3) The young and the adult stay in the same type of place
 - (4) The young and the adult always reproduce to ensure continuity of life

2. Which one of these animals is a fish?
 - (1) Whale
 - (2) Starfish
 - (3) Jellyfish
 - (4) Seahorse

3. Which of the following characteristics tell us that the spiny anteater is a mammal?
 - A: It has hair
 - B: It lays eggs
 - C: It lives on land
 - D: It suckles its young
 - (1) B only
 - (2) A and B only
 - (3) A and D only
 - (4) C and D only

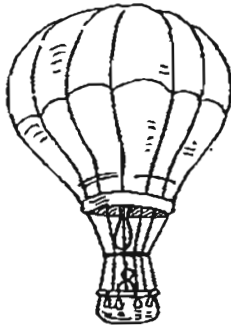
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4. Study the table below carefully.

Non-living things	Living things
Robot	Pupa
Clock	Coral
Thunder	Stone Fish
Rain drops	Earthquake

Which one of the above objects has been classified **wrongly**?

- (1) Pupa
 - (2) Coral
 - (3) Thunder
 - (4) Earthquake
5. Which of the following statements explain why hot air balloons, helicopters and kites are not living things even though they can 'fly' in the sky?



- A : They do not have legs
 B : They do not reproduce
 C : They do not move by themselves
 D : They do not grow bigger and heavier

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

(Go on to the next page)

6. Jessie recorded the characteristics of four animals in the table below after watching an animal documentary.

Characteristics	Has 6 legs	Has webbed feet	Plant eater	Lays eggs
Animals				
Grasshopper	√		√	√
Kangaroo			√	√
Duck		√	√	
Frog		√		√

Which animal(s) has/have not been recorded correctly?

- (1) Duck only
- (2) Duck and frog only
- (3) Kangaroo and duck only
- (4) Grasshopper and frog only

7. Study the table below.

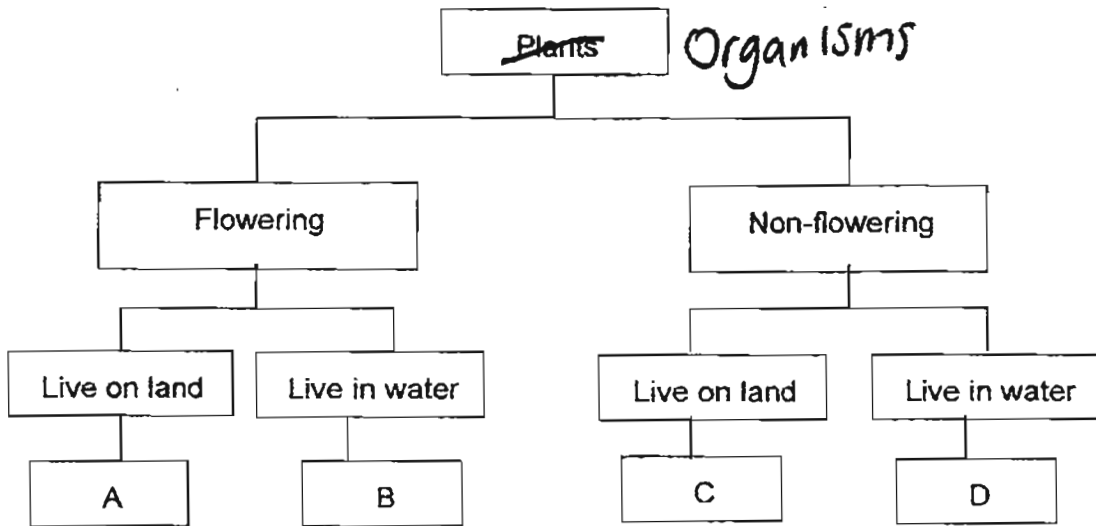
X	Y
Duckweed	Rose
Water hyacinth	Dumbcane
Lotus	Grass

Which one of the following set of headings is correct for X and Y?

	X	Y
(1)	Non-flowering plants	Flowering Plants
(2)	Water Plants	Land Plants
(3)	Useful Plants	Poisonous Plants
(4)	Edible Plants	Inedible Plants

(Go on to the next page)

8. Study the concept map given below.



Where should Ixora and Algae be placed?

	Ixora	Algae
(1)	A	D
(2)	B	C
(3)	C	B
(4)	D	A

9. What do plants need to grow?

A: Soil
 B: Water
 C: Sunlight
 D: Fertiliser

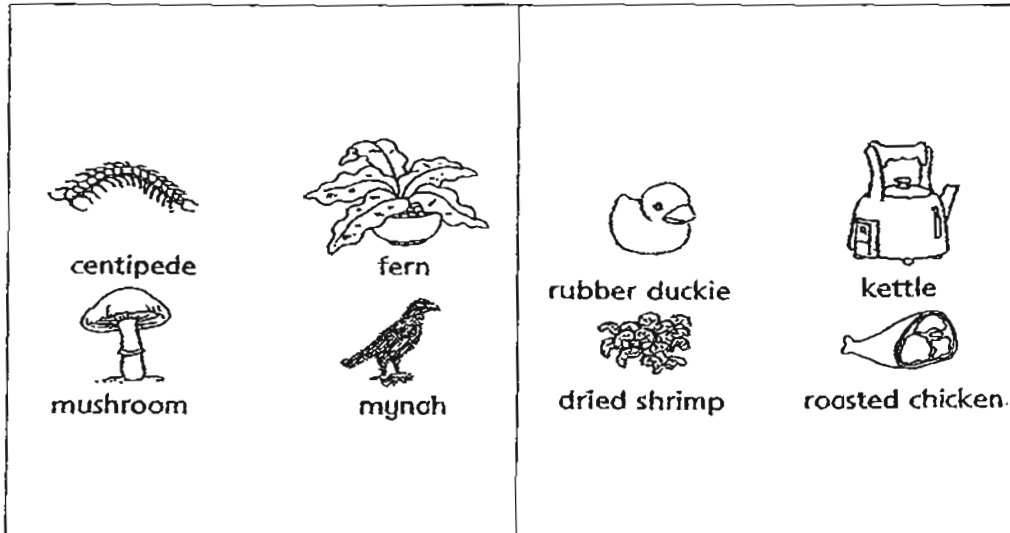
- (1) A and B
 (2) B and C
 (3) B and D
 (4) C and D

(Go on to the next page)

10. Sunlight is important to green plants because it _____.

- (1) makes chlorophyll
- (2) makes the plants grow
- (3) enables the leaves to make food for the plant
- (4) helps the plants to have a firm grip in the ground

11. Study the following groups of things.



Group X

Group Y

How are the things in Group X different from the things in Group Y?

	Group X	Group Y
A	Alive	Once Alive
B	Respond to changes	Does not respond to changes
C	Need air, food and water	Does not need air, food and water
D	Move from place to place by themselves	Does not move from place to place by themselves

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

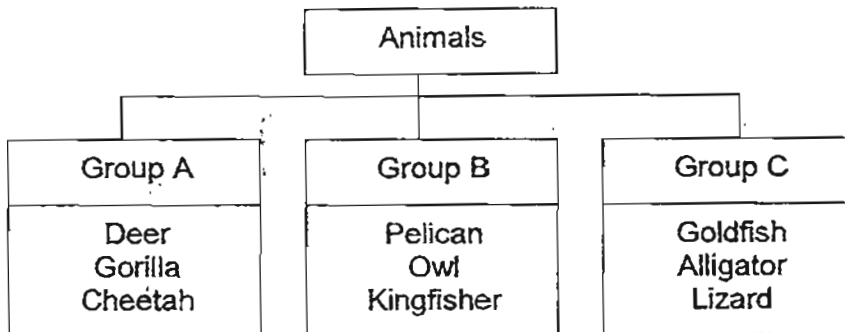
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12. Which of the following is **not true** of all insects?

- A : They can fly
- B : They lay eggs
- C : They have 6 legs
- D : They live on land

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

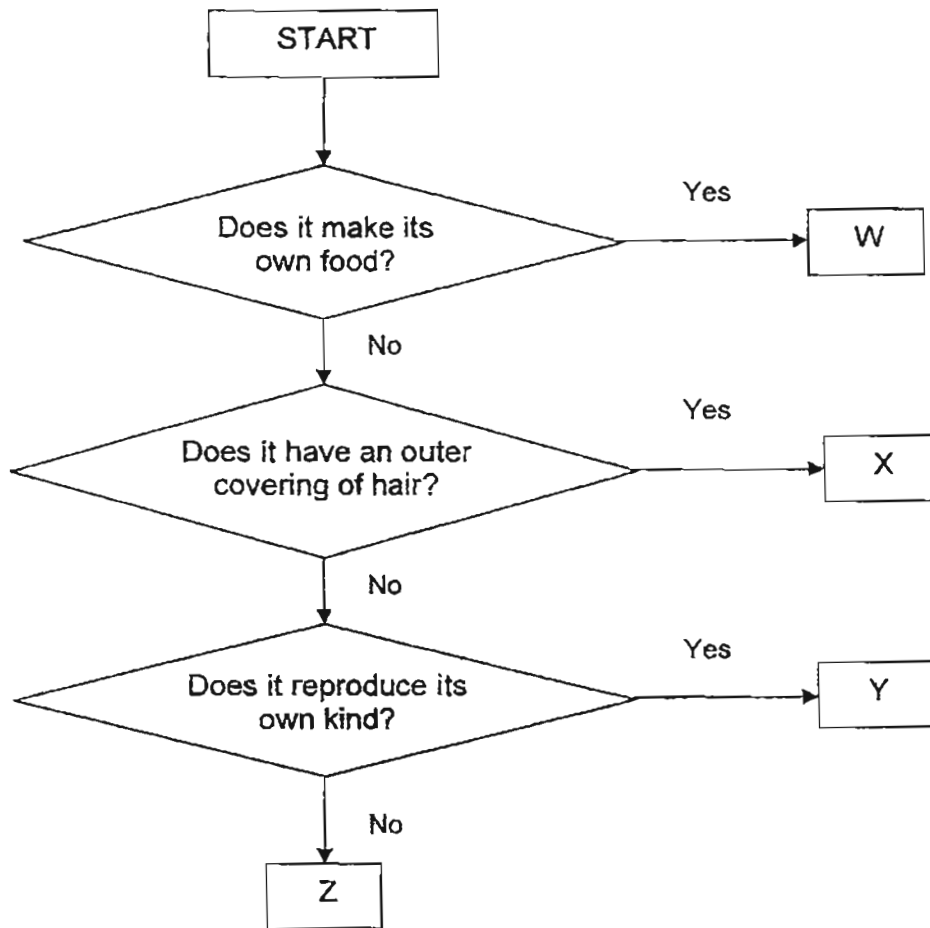
13. Study the classification table below.



Which of the following animals can be grouped into Groups A, B and C?

	Group A	Group B	Group C
(1)	Penguin	Flamingo	Sardine
(2)	Lion	Tortoise	Molly
(3)	Dolphin	Parrot	Snake
(4)	Giraffe	Peacock	Whale

14. Study the flowchart below.



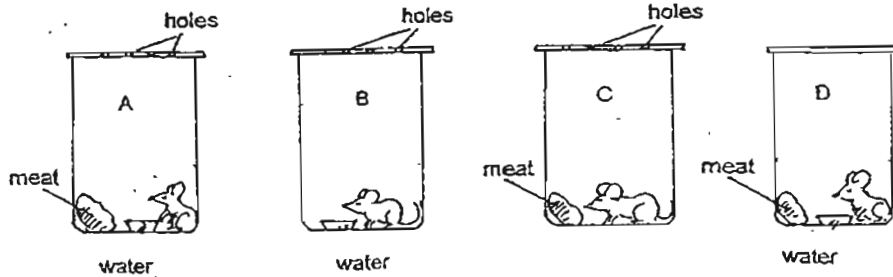
What conclusions can be made from the information given?

- A : W is a type of plant
- B : X is a mammal
- C : Y could be a type of fungi
- D : Z is not a living thing

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

(Go on to the next page)

15. Four jars, A, B, C and D, each contained a mouse. Plastic sheets were used to cover the mouths of the jars.



Which mouse would be the first to die? Arrange the jars according to the order in which the mice die, from the first to last.

- (1) C, A, D, B
 - (2) A, B, C, D
 - (3) B, D, A, C
 - (4) D, C, B, A
16. Gopal wants to find out what type of food the mealworms like to eat. He prepared 4 setups in his experiment as shown below. Which two setups must he compare to ensure that it is a fair test?

Setup	Number of mealworms	Type of food	Mass of food	Size of container
A	5	Oatmeal	50g	10 cm x 10 cm x 5 cm
B	5	Oatmeal	80g	10 cm x 15 cm x 5 cm
C	5	Corn	50g	10 cm x 10 cm x 5 cm
D	10	Corn	80g	10 cm x 10 cm x 5 cm

- (1) A and B
 - (2) A and C
 - (3) B and D
 - (4) C and D
17. Which of the following is not true about bread mould?

- (1) It is a type of fungi.
- (2) It grows only in dark places.
- (3) It gets its food from the bread.
- (4) It is of different shapes and colours.

18. Which of the following statements about bacteria are correct?

	Useful	Harmful
(1)	It is used to make wine	It causes bread mould
(2)	It is used for making yoghurt	It causes illnesses in humans
(3)	It is used to make medicine	It helps in decomposition
(4)	It is used to make bread	It is found in our intestines

19. Compare the three plants below.



Sunflower



Cactus



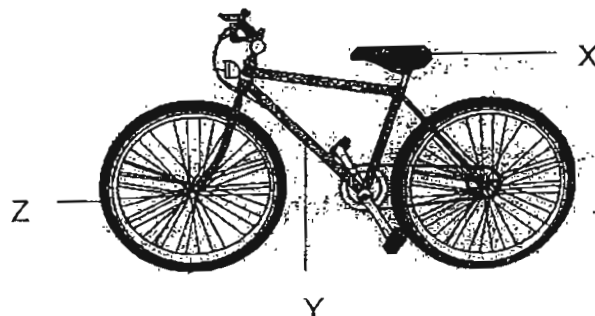
Fern

Which of the following statements is correct?

- (1) They produce flowers.
- (2) They reproduce by spores
- (3) They can make their own food.
- (4) They can move from one place to another on their own.

(Go on to the next page)

20. A bicycle is made using several types of materials.



What could X, Y and Z be?

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

21. Tom was given an object and he had to determine what material that object was made of. He conducted some tests and found that the object was waterproof, light and able to float. Which of the following objects is likely to be made from the same material as the object Tom had?

- (1) Glass jug
- (2) Plastic spoon
- (3) Porcelain spoon
- (4) Cotton handkerchief

22. On a rainy day, Rita wears a hat to keep her hair dry. She said, "My hair still gets wet even though I am wearing a hat." What material do you think the hat is made of?

- (1) Fabric
- (2) Plastic
- (3) Rubber
- (4) Aluminium

23. We can obtain many materials from plants. Which of the following is not obtained from plants?

- A: Wool
- B: Cotton
- C: Tissue paper
- D: Silk

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

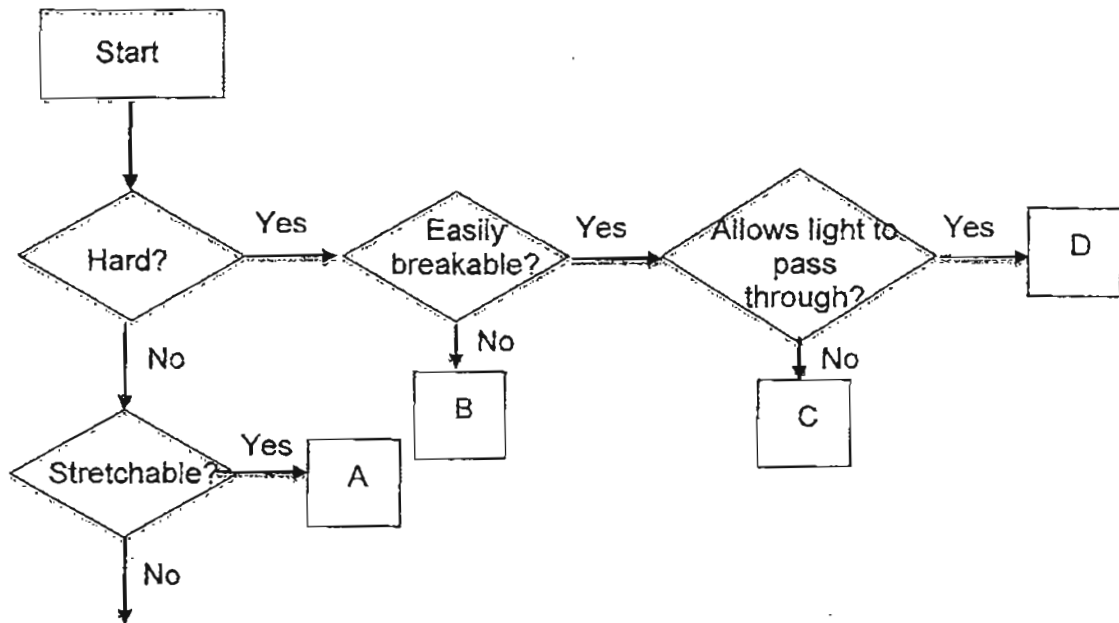
24. A, B, C and D are four different materials.

Property	A	B	C	D
Flexible		√		√
Waterproof	√	√	√	
Allows light to pass through			√	
Shiny	√			

Which of the materials can be used to make a raincoat?

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

25. Study the flowchart given below.



Which of the following correctly gives an example of an object that fits the properties described for A, B, C and D?

	A	B	C	D
(1)	Mirror	Wooden chair	Rubber hose	Glass jug
(2)	Plasticine	Plastic bowl	Floor tile	Pencil
(3)	Rubber band	Metal ring	Ceramic vase	Wine glass
(4)	Eraser	Porcelain mug	Wooden ruler	Silk scarf

End of Booklet A

(Go on to the next page)

METHODIST GIRLS' SCHOOL
Founded in 1887



MID-YEAR EXAMINATION 2011
PRIMARY 3
SCIENCE

BOOKLET B

Total Time for Booklets A and B: 1 hour 45 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: 10 May 2011

Booklet A	/ 50
Booklet B	/ 40
Performance Task	/ 10
TOTAL	100 190

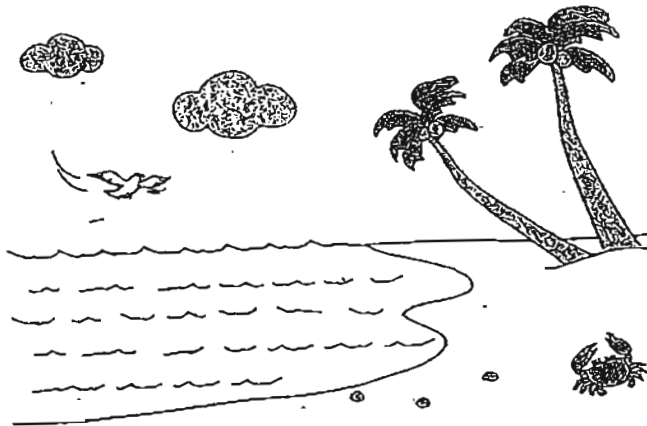
This booklet consists of 10 printed pages including this page.

For questions 26 to 40, 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.

(40 marks)

26. Study the picture below.



Name three living things and three non-living things.

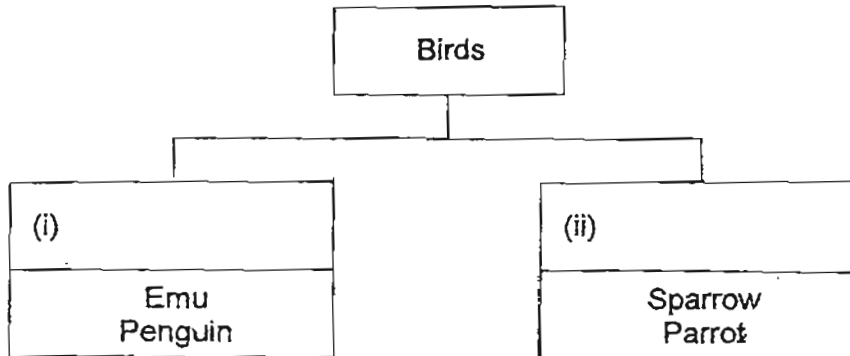
[3]

Living things : (i) _____
(ii) _____
(iii) _____

Non-living things : (i) _____
(ii) _____
(iii) _____

(Go on to the next page)

27. (a) Complete the chart below by filling in the correct sub-headings. [2]



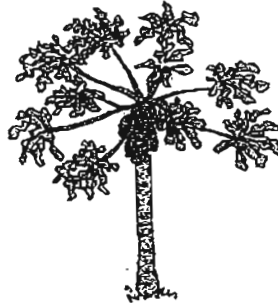
(b) State a reason why a male peacock has colourful feathers. [1]

28. Look at the pictures below.

Plant A



Plant B



Write down two differences between Plant A and Plant B [2]

(a) _____

(b) _____

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29. Three pupils made the following statements about mammals.

Susan : All mammals give birth to their young alive.

Terri : All mammals have hair on their bodies

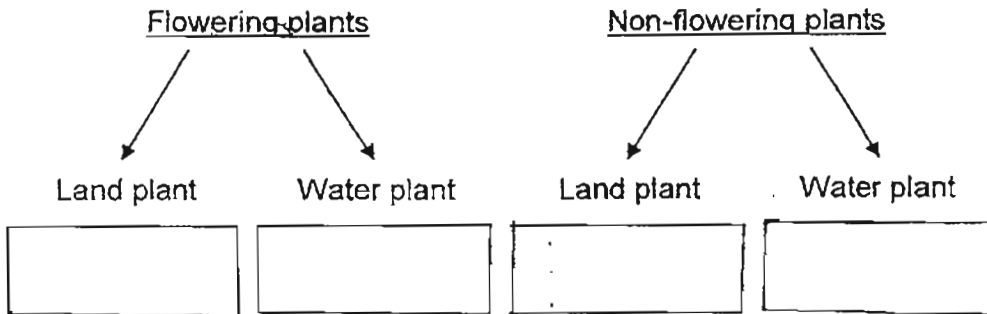
Ida : All mammals live on land

(a) Who made the wrong statement? [1]

(b) Give an example to support your answer in (a) [1]

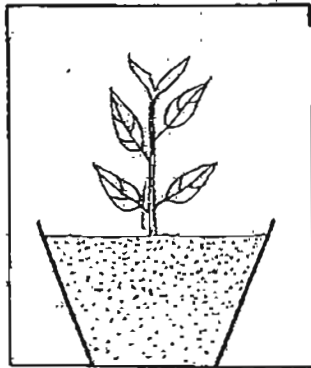
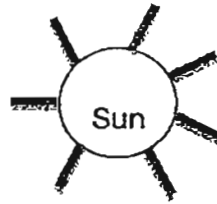
30. Classify the following plants. Write them in the correct boxes. [2]

Dragon scales	Water lily	Hydrilla	Ixora
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31. Look at the diagram below.



(a) What would you observe about the plant after 1 week? [1]

(b) Give a reason for your answer in (a). [1]

32. The height of a plant was measured over a few days and recorded in the table below.

Day	Height in centimetres (cm)
2	3
5	6
8	9
11	12

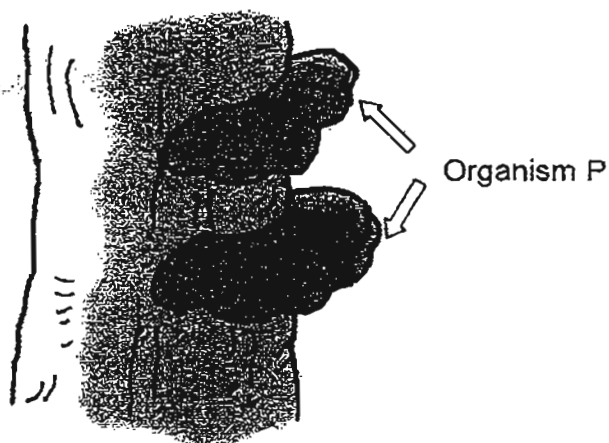
(a) What was the height of the plant on the eighth day? [1]

(b) What do you think was the height of the plant on the tenth day? [1]

(c) What property about living things can be observed from the table? [1]

(Go on to the next page)

33 Study the diagram below.



(a) Which group of living things does organism P belong to? [1]

(b) State two characteristics of the group which P belongs to. [2]

i) _____

ii) _____

34. Animals X, Y and Z are classified in the following classification table.

Animals		
Can swim only	Can fly and swim	Can swim and hop
X	Y	Z

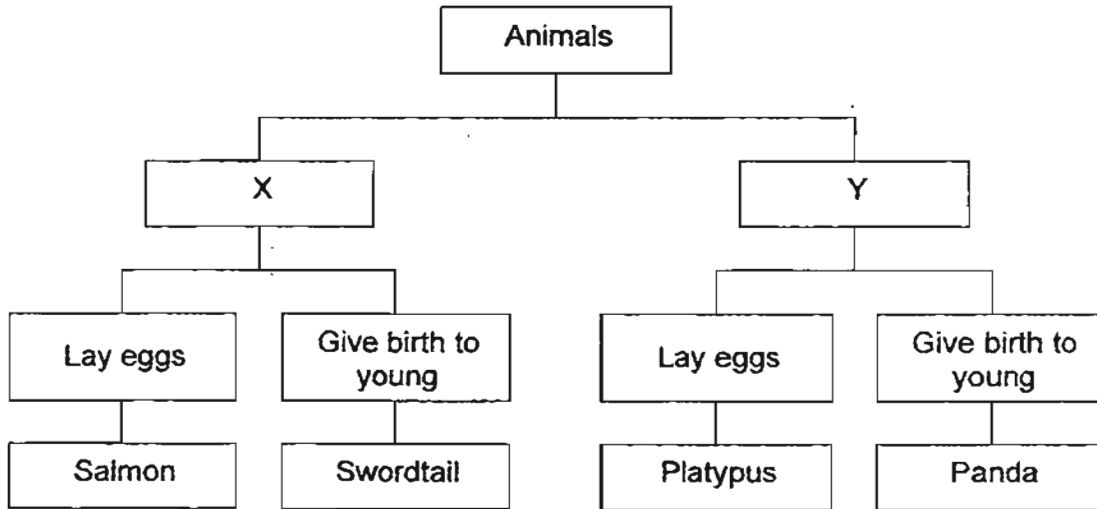
(a) Name an animal which can be X. [1]

(b) State one similarity between animal Y and animal Z. [1]

(c) State one difference between animal Y and animal Z. [1]

(Go on to the next page)

35. Study the classification chart below.



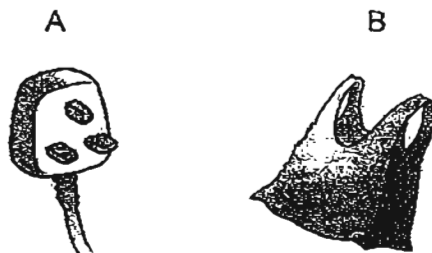
(a) Based on the chart above, in what way are the salmon and the platypus similar? [1]

(b) Suggest an appropriate heading for X and Y respectively. [2]

X: _____

Y: _____

36. The objects shown below are made of plastic.



Write down two differences between the properties of the two types of plastic. [2]

(a) _____

(b) _____

(Go on to the next page)

37. The picture below shows a measuring cylinder.



- (a) State two important properties that a measuring cylinder must have. [2]

(i) _____

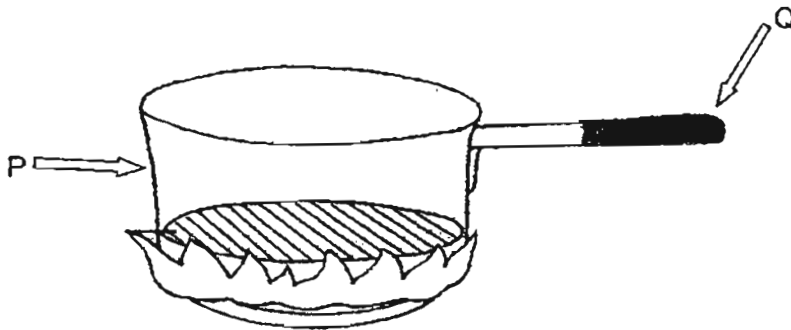
(ii) _____

- (b) Name two materials that can be used to make the measuring cylinder. [2]

(i) _____

(ii) _____

38. Look at the picture below.

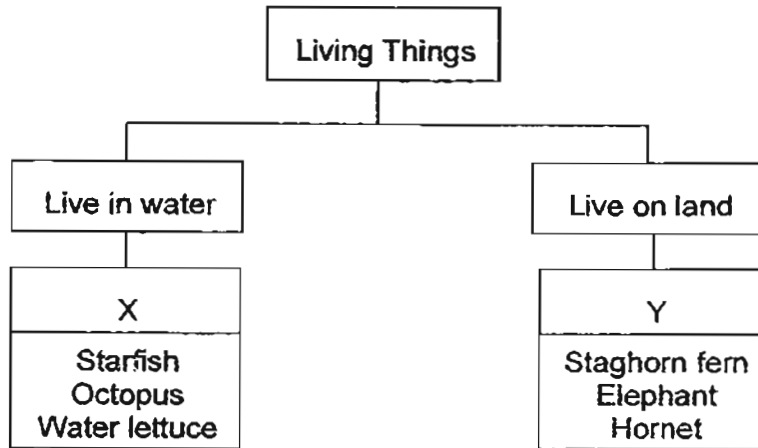


- (a) Name one type of material that is suitable for making part P. [1]

- (b) Give one reason why part Q is made of plastic. [1]

(Go on to the next page)

39. Study the classification chart below.



Re-classify the living things in boxes X and Y into two groups by writing them in the table below. It must be based on **another** property.

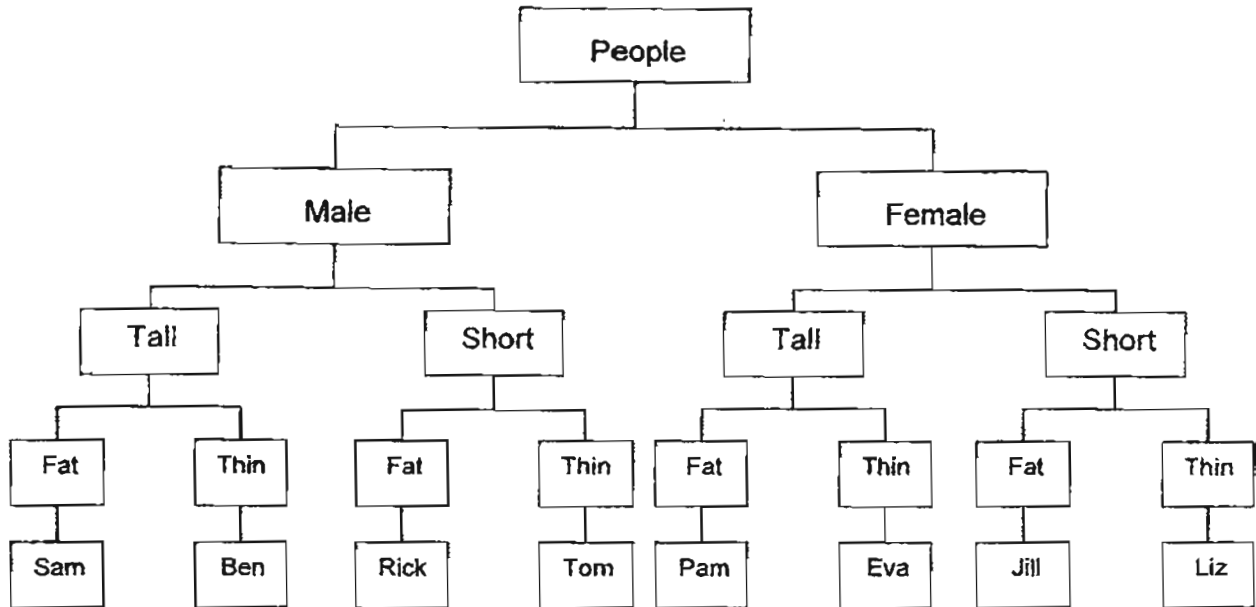
Give an appropriate **heading, (A) and (B)**, for each group.

[3]

Heading (A)	Heading (B) :
Water lettuce	Elephant

(Go on to the next page)

40. Study the classification chart below.



(a) Which girl is tall and thin?

[1]

(b) Who are the people in the classification chart who are short and fat?

[1]

(c) Which boy is most likely the lightest?

[1]

End of Paper

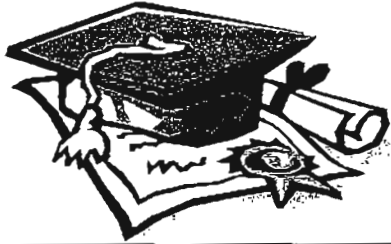
METHODIST GIRLS SCHOOL (PRIMARY)

P3 MID YEAR SA1 2011

SCIENCE

ANSWERS:

- | | |
|------|---|
| 1) | 1 |
| 2) | 4 |
| 3) | 3 |
| 4) | 4 |
| 5) | 4 |
| 6) | 3 |
| 7) | 2 |
| 8) | 1 |
| 9) | 2 |
| 10) | 3 |
| 11) | 1 |
| 12) | 2 |
| 13) | 3 |
| 14) | 4 |
| 15) | 4 |
| 16) | 2 |
| 17) | 2 |
| 18) | 2 |
| 19) | 3 |
| 20) | 3 |
| 21) | 2 |
| 22) | 1 |
| 23) | 2 |
| 24) | 2 |
| 25) | 3 |

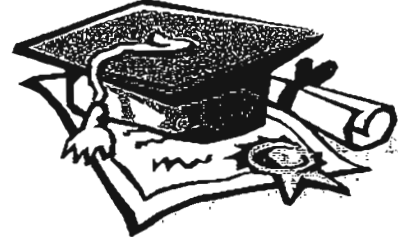


ANSWER SHEET

EXAM PAPER 2011

SCHOOL : MGS
SUBJECT : PRIMARY 3 SCIENCE

TERM : SA1



26) Living things: i) crab ii) bird iii) tree
Non-living things: i) sea ii) cloud iii) rock

27) a) i) cannot fly ii) Can fly
b) It attracts the female pea cocks.

28) a) Plant A has a weak stem but Plant B has a strong stem.
b) Plant A is a non-flowering plant but Plant B is a flowering plant.

29) a) Ida and Susan.
b) Not all mammals live on land. Some live on water such as a whale and a dolphin.
A: platypus and an anteater lays eggs.

30) Ixora, Water lily, Dragon scales, Hydrilla

31) a) It will grow towards the hole.
b) The plant responds to sunlight.

32) a) 9cm.
b) 11cm.
c) Living things grow.

33) a) Fungi.
b) i) It reproduces by spores.
ii) It is a decomposer.

34) a) Whale.
b) They can swim.
c) Animal Y can fly but animal Z can hop.

35) a) They both lay eggs.
b) X: Fishes
Y: Mammals

36) a) Plastic A is strong but Plastic B is weak.
b) Plastic A is heavy but Plastic B is light.

37)a)i)A measuring cylinder must be waterproof.
ii)A measuring cylinder must be hard and stiff.
b)i)plastic.
ii)Glass.

38)a)Metal.
b)It is a bad conductor of heat.

39)A: Plants	B: Animals
Staghorn fern	Star fish
	Hornet
	Octopus

40)a)Eva.
b)Jill and Rick.
c)Tom.