NANYANG PRIMARY SCHOOL

PRIMARY 3 SCIENCE

SEMESTRAL ASSESSMENT 1
2014

BOOKLET A

Date : 8 May 2014
Duration : 1 h 20 min

Name : _____ ( )

Class: Primary 3 ( )

Parent's signature: .....

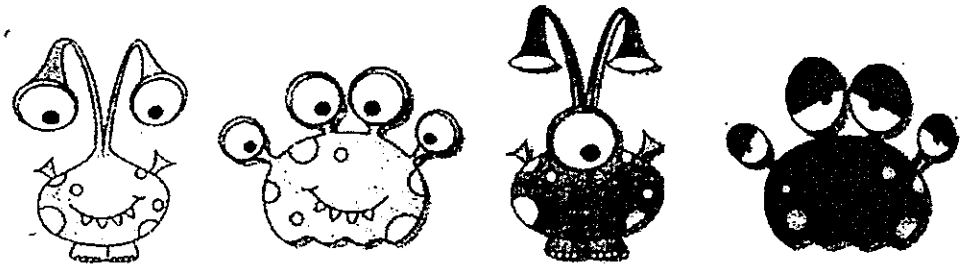
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Booklet A consists of 13 printed pages including this cover page.

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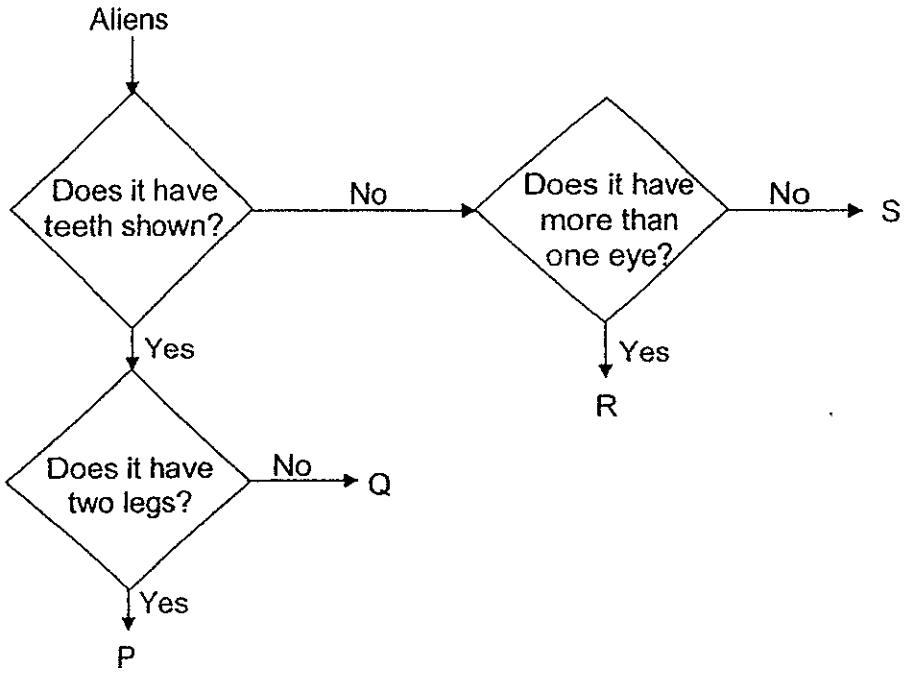
Section A (24 x 2 marks = 48 marks)
For each question from 1 to 24, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). **Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet provided.**

1. Ding En studied the 4 aliens shown below.



alien A alien B alien C alien D

He was then given the flowchart below to "classify" the aliens.



Based on the flowchart, which alien could be represented by P, Q, R and S?

(1) Alien A is Q.
(2) Alien B is S.
(3) Alien C is P
(4) Alien D is R.

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2. Trisha saw a brown 'twig' in a bush. When the wind blew, it swayed sideways. Then a bird flew towards it and the 'twig' suddenly opened up its wings and flew towards a pile of dead leaves. Trisha could not locate the 'twig' anymore.

Trisha concluded that the 'twig' was a living thing.

Which one of the following observations helped Trisha to arrive at her conclusion?

(1) It swayed sideways which showed it could move.
(2) It opened up its wings which showed it could grow.
(3) It flew towards a pile of dead leaves which showed it could reproduce.
(4) It flew away when the bird flew towards it which showed it could respond to changes in its surroundings.

3. Four children made statements to give examples that living things can grow.

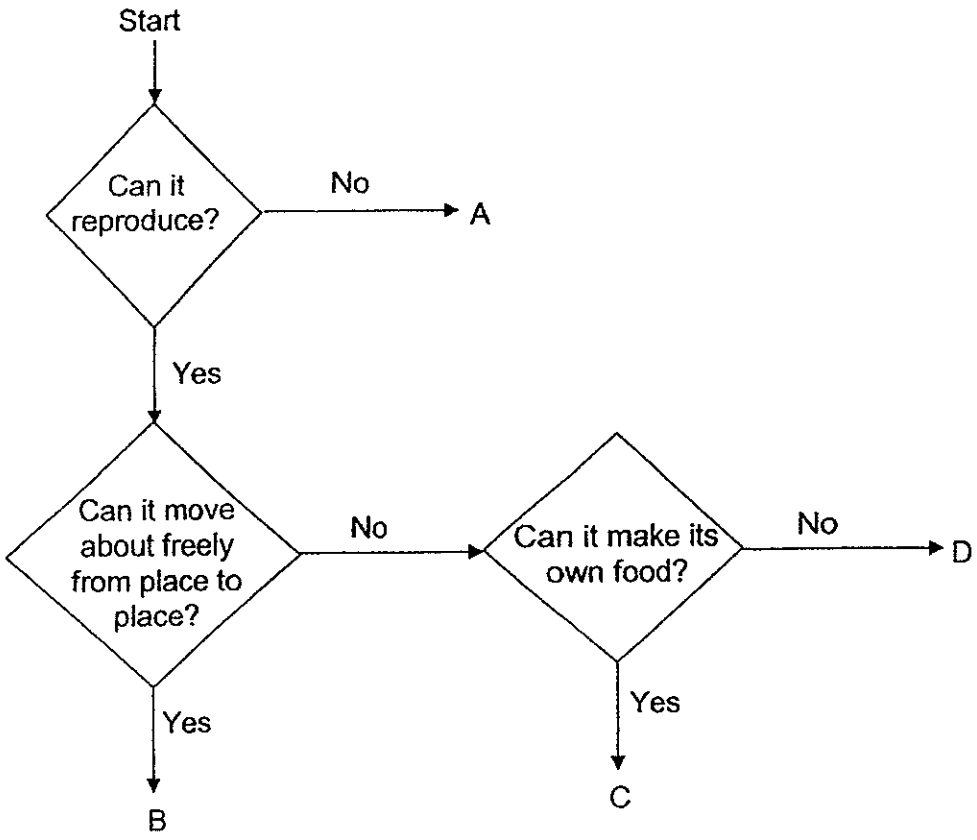
Andre : The caterpillar changed into a butterfly..
Bei Li : Kieran could no longer fit into the shoes he wore last year.
Camille : The pond that only had frogs was now filled with many tadpoles.
Davindar : The pufferfish became bigger when it swallowed water into its stomach.

Which children had given examples that correctly show living things can grow?

(1) Andre and Bei Li only
(2) Bei Li and Davindar only
(3) Camille and Davindar only
(4) Andre, Bei Li and Camille only

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4. Study the flowchart below.



Which of the following, A, B, C or D, best represents a plant?

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

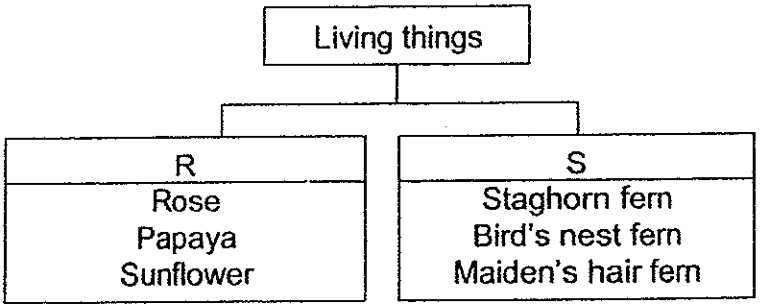
5. Which one of the following boys had made a true statement about plants?

Ali: Plants can grow only in soil.
Ben: Plants cannot grow in water.
Chan: Plants can grow on other plants.
David: Plants cannot grow on buildings.

(1) Ali
(2) Ben
(3) Chan
(4) David

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6. Study the chart below.



Which of the following are suitable headings to represent R and S?

	R	S
(1)	Plants	Fungi
(2)	Mosses	Ferns
(3)	Flowering plants	Non-flowering plants
(4)	Reproduce by spores	Reproduce by seeds

7. The diagram below shows two types of living things.



Orchid plant



Bird's nest fern

In which of the following way(s) are these two living things similar?

A They need water to grow.
B They reproduce by spores.
C They can make their own food.

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

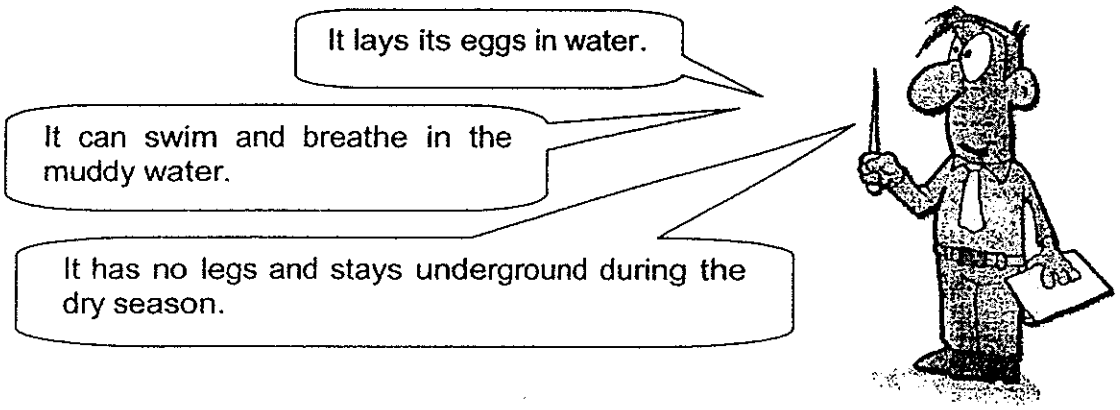
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8. Which of the following statements are **true** about plants?

A All plants are edible.
B All plants reproduce by seeds.
C Plants can be a source of material.
D Plants can be used to make medicine.

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

9. Mr Tan described an unknown animal, Animal X, to his class.



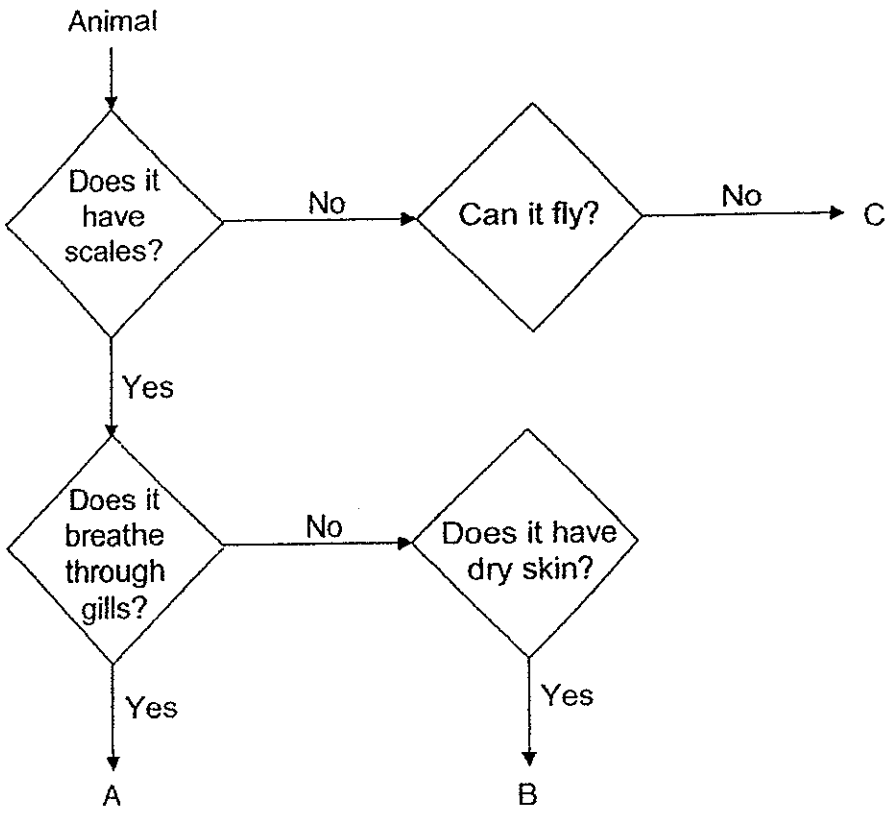
Which of the following reasons can help the class conclude that animal X is an amphibian?

A Animal X can swim.
B Animal X has no legs.
C Animal X lays its eggs in water.
D Animal X can live both on land and in water.

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

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10. Study the flow chart below.

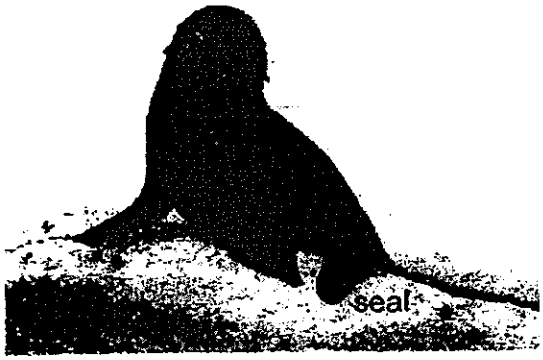


Based on the flowchart, which one of the following animals represent A, B and C correctly?

	A	B	C
(1)	goldfish	salamander	monkey
(2)	dolphin	crocodile	pelican
(3)	dolphin	salamander	pelican
(4)	goldfish	crocodile	monkey

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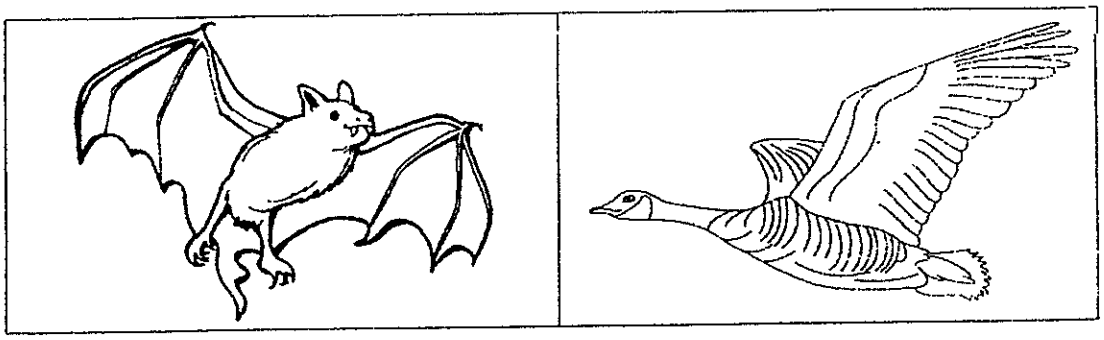
11. Which of the following statements are **true** about seals?



A They breathe using lungs.
B They have no outer body covering.
C The female seals produce milk for their young.
D They stay under the sun to increase their body temperature.

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

12. Study the diagram below.



Bat Goose

Which of the following statements about the bat and the goose is/are **false**?

A Both animals lay eggs.
B The bat cannot fly but the goose can fly.
C The bat's body is covered with hair but the goose's body is covered with feathers.

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

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13. Which one of the following explains why insects need a hard outer covering?

A It keeps the insects warm.
B It gives the insects their shape.
C It protects the insects' soft bodies.

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

14. Which one of the following statements is **true**?

(1) Only birds can fly.
(2) Only fish have gills.
(3) Only fish have scales.
(4) Only birds have feathers.

15. Study the information in the table below carefully.

Insect	Has wings	Destroys property	Spreads diseases
A	yes	no	yes
B	no	yes	no
C	yes	no	no
D	no	no	no

Based on the information above, which one of the following could represent insects A, B, C and D?

	A	B	C	D
(1)	ladybird	ant	mosquito	silverfish
(2)	silverfish	ladybird	ant	mosquito
(3)	mosquito	silverfish	ladybird	ant
(4)	ant	mosquito	silverfish	ladybird

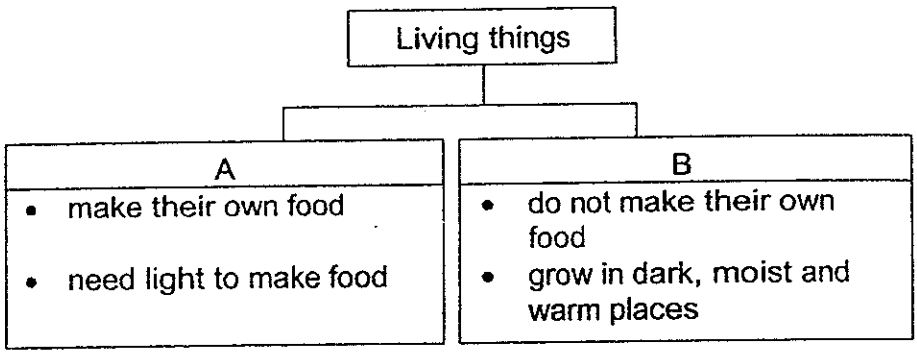
16. Which one of the following explains why living things die?

A They die when they become old or fall ill.
B They die when they are hurt by human activities.
C They die when they are eaten by other living things.
D They die when they do not have enough air, food or water.

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

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17. Study the chart below.



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

	A	B
(1)	Fungi	Animals
(2)	Plants	Fungi
(3)	Bacteria	Plants
(4)	Animals	Bacteria

18. Which one of the following explains why bacteria are classified as living things?

(1) They can be useful or harmful.
(2) They feed on other organisms.
(3) They can be found everywhere.
(4) They can be seen under the microscope.

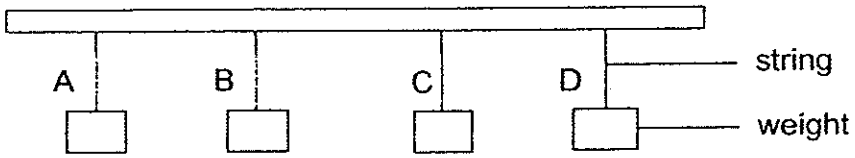
19. Which of the following objects will sink in water?

A Rubber ball
B Ceramic tile
C Glass marble
D Wooden toothpick

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

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20. David wanted to test the strength of four strings made of different materials, A, B, C and D. He hung weights on each string. He increased the number of weights until the string broke.



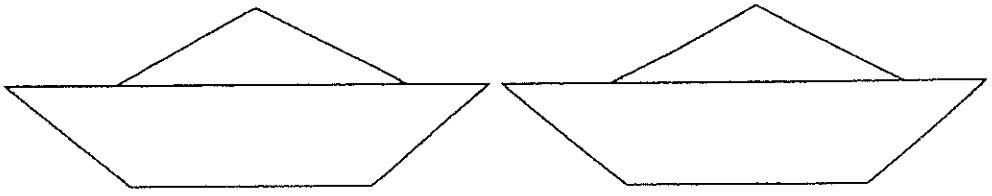
He then recorded the most number of weights the string could hold before it broke.

String	Number of weights added
A	11
B	7
C	5
D	14

Based on his results, which string was the strongest?

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

21. Kai Wen folded two boats using two different materials. Boat A was made of paper while boat B was made of plastic. He put both of the boats into a basin of water. A few minutes later, he realized that Boat A tore.



Boat A
made of paper

Boat B
made of plastic

Which property was he testing for?

(1) Strength
(2) Flexibility
(3) Transparency
(4) Waterproof

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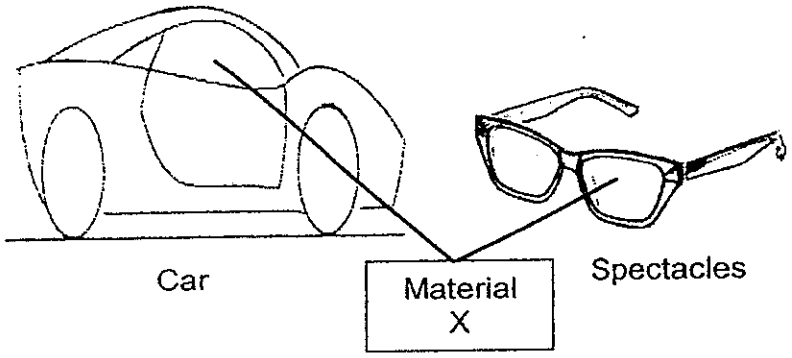
22. Siti tested a material and listed its properties as shown below.

- It is flexible
- It is waterproof

Based on the properties above, which one of the following objects can be made using this material?

(1) key
(2) towel
(3) fish tank
(4) water hose

23. Material X can be used to make a part of the two objects as labeled below.



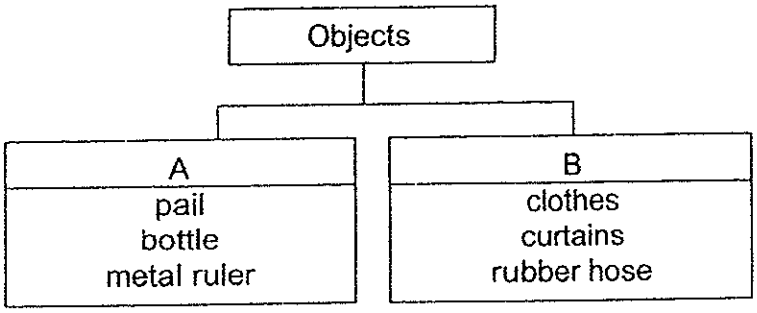
Which of the following properties must Material X have for the parts to function?

A It is strong so it does not break easily.
B It is waterproof so it does not absorb water.
C It is flexible so it can bend without breaking.
D It is transparent to allow most light to pass through.

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

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24. Study the classification chart below.



Which property has been used to classify the objects?

(1) Flexibility
(2) Waterproof
(3) Ability to float on water
(4) Degree of transparency

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NANYANG PRIMARY SCHOOL

PRIMARY 3 SCIENCE

SEMESTRAL ASSESSMENT 1
2014

BOOKLET B

Date : 8 May 2014

Duration : 1 h 20 min

Name : _____ ( )

Class: Primary 3 ( )

Marks Scored:

Booklet A:		48
Booklet B :		32
Total :		80

Any query on marks awarded should be raised by 20 May 2014.
We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results.

Parent's signature: ....

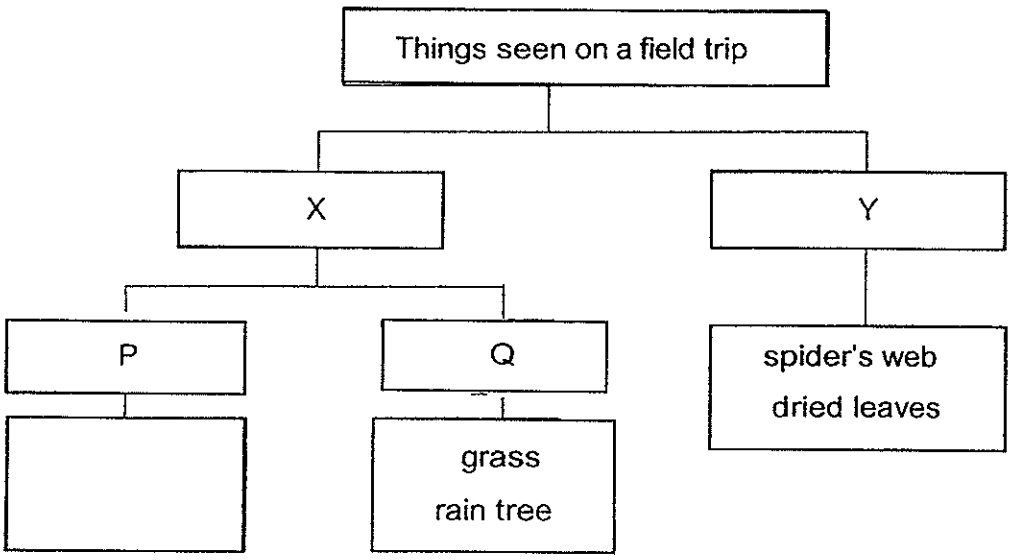
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Section B (32 marks)
Write your answers to questions 25 to 34 in the spaces provided.

25. Trevor classified some things he had seen on a field trip using the diagram below.



(a) Give a suitable heading for X and Y. [1]

(i) X : _____

(ii) Y : _____

(b) State one difference in characteristics between the things in groups P and Q.

[1]

_____

_____

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26. Andy found two living things, A and B, and recorded the following observations.

A	B
• It has roots, stem and leaves • It grows towards light	• It has a cap, stalk, gills and spores • It grows in a dark, moist and warm place

(a) Which **group** of living things do A and B belong to? [2]

A: _____

B: _____

(b) Andy classified some ferns in group B because the ferns have spores. Give a reason, based on a characteristic of ferns, to explain why he is wrong. [1]

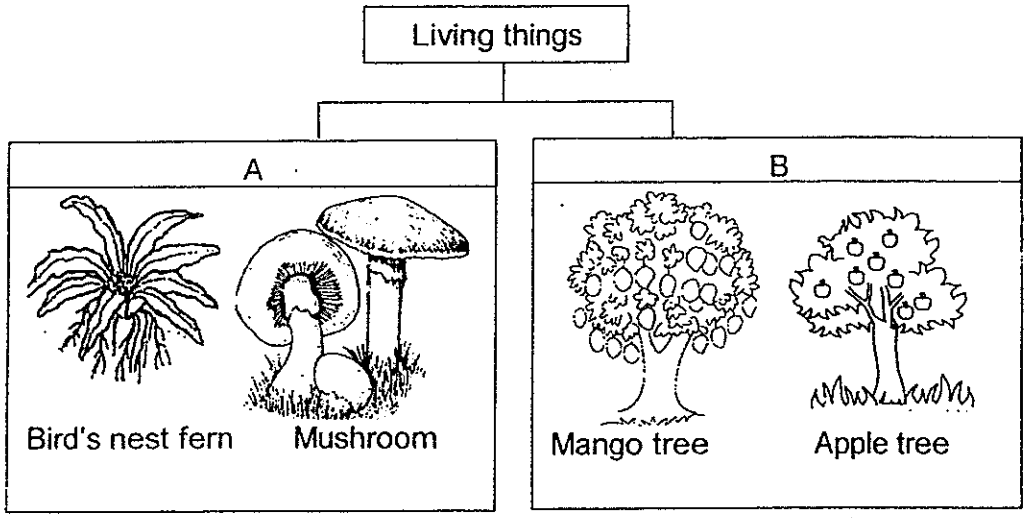
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27. Study the diagram below.



(a) State the correct headings to represent A and B [2]

A: _____

B: _____

(b) Although they are in the same group, state a characteristic that is different between Mushroom and Bird's nest fern. [2]

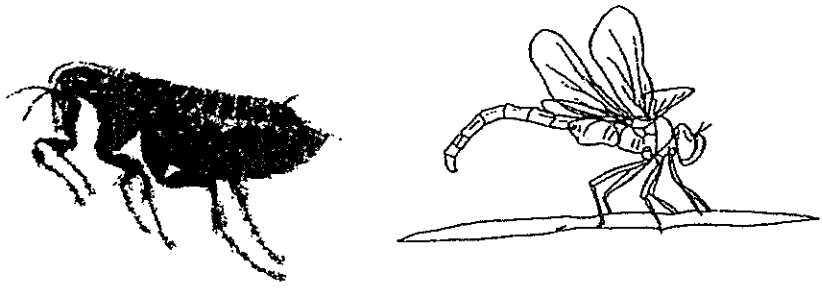
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28. Study the two animals shown below.



Animal A

Animal B

(a) Which group of animals do they belong to? Give a reason for your choice. [1]

_____

_____

(b) Based only on what can be seen in the diagram, state two differences between animal A and animal B. [2]

(i) _____

_____

_____

(ii) _____

_____

_____

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29. A team of scientists found a strange animal as described below.

> It has fins to swim and walk on land.
> It has gills to breathe underwater.
> It breathes through its moist skin when out of water.

The scientists have difficulty grouping the animal.
Some scientists grouped them as fish while others grouped them as amphibians.

(a) Give 2 reasons why the animal can be grouped as 'Fish'. [2]

_____

_____

_____

(b) Give 2 reasons why the animal can be grouped as 'Amphibian'. [2]

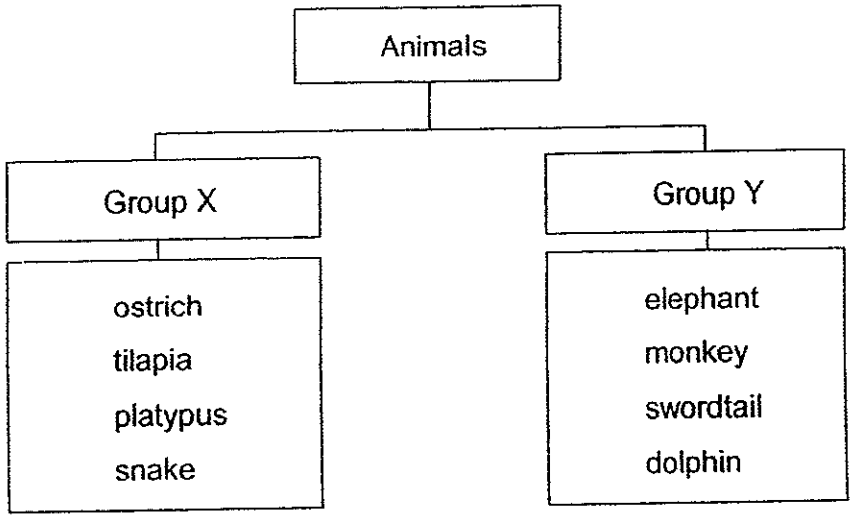
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30. Eight animals have been classified in the chart below.

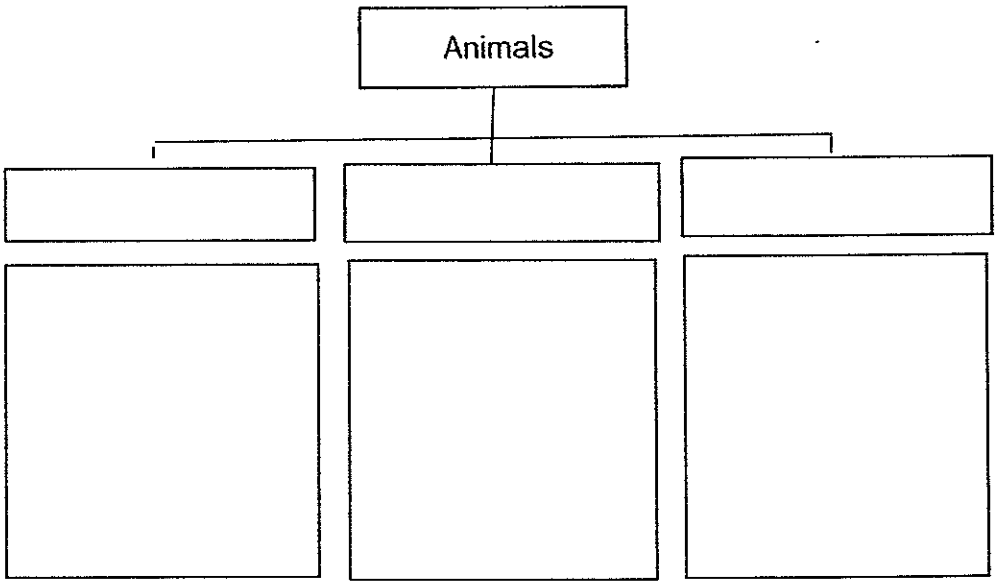


(a) How are the animals in group X different from the animals in group Y? [1]

_____

_____

(b) Reclassify all the eight animals into three groups in the chart below, based on their outer covering.
Give a suitable heading for each group. [3]

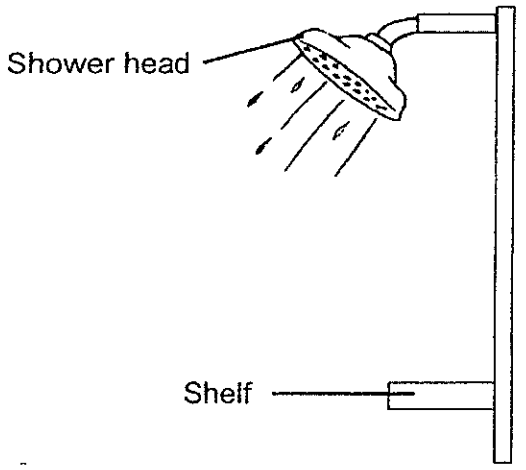


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31. Study the statements about bacteria below. Put a (tick) in the correct column for each statement. [3]

Statements	True	False
(a) Bacteria can be seen using a magnifying glass.		
(b) Bacteria come in different shapes.		
(c) All bacteria are harmful.		

32. Anna needed to make a shelf to put a shampoo bottle in her shower room.



Give two reasons why metal is suitable for making the shelf. [2]

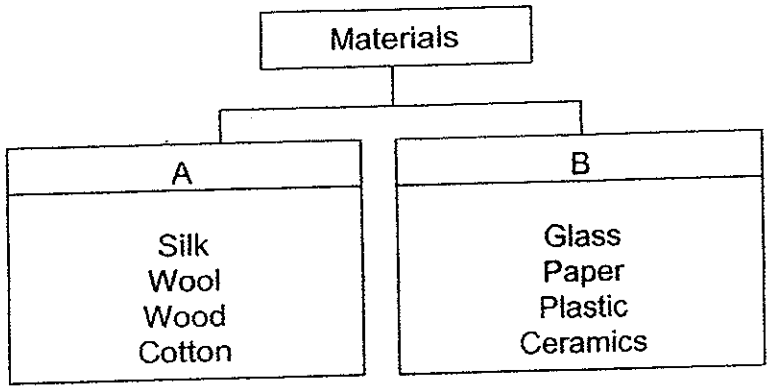
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33. The diagram below shows the classification of some materials.

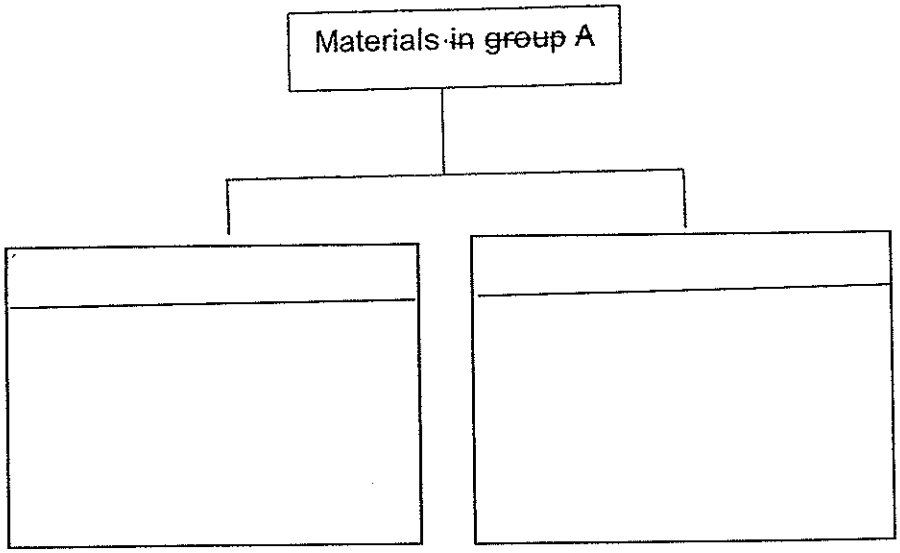


(a) State the suitable headings for groups A and B [2]

Group A: _____

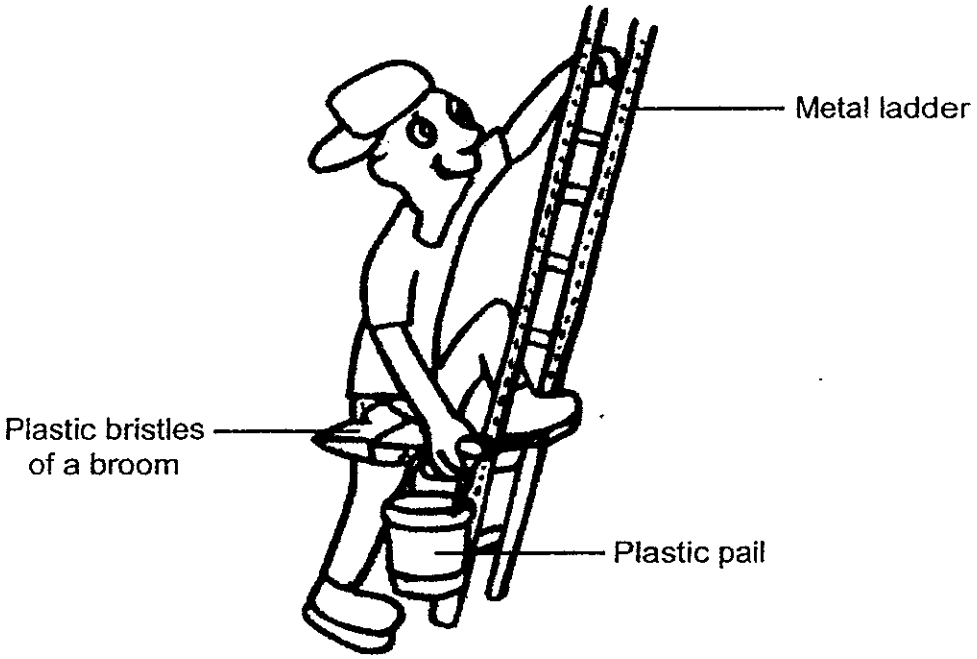
Group B: _____

(b) Reclassify all the eight materials into two groups in the chart below.
Give a suitable heading for each group. [2]



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34. Study the picture of the cleaner below.



(a) Give a reason, based on their properties and the function of the objects, why the materials are suitable for making the three objects above. [3]

(i) Metal ladder

_____

_____

(ii) Plastic bristles

_____

_____

(iii) Plastic pail

_____

_____

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EXAM PAPER 2014
LEVEL : PRIMARY 3
SCHOOL : NANYANG
SUBJECT : SCIENCE
TERM : SA1

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

Q25 (a) (i) X: Living things
(ii) Y: Non-living things
(b) Things in group P can move freely from place to place but things in group Q are rooted to one spot.

Q26 (a) A: Plants
B: Fungi
(b) Ferns make their own food while fungi absorbs food from their surroundings.

Q27 (a) A: Reproduce by spores
B: Reproduce by seeds
(b) Mushroom do not make their own food while bird's nest fern make their own food.

Q28 (a) Insects. Insects have a pair of feelers, three body parts and six legs.
(b) (i) Animal A has no wings but animal B has wings.
(ii) Animal A has hairy legs but animal B does not have hairy legs.

Q29 (a) Fish have fins to swim and fish have gills to breathe.
(b) They have moist skin to breathe when out of water and they can live both on land and in water.

Q30 (a) Group X lay eggs but group Y give birth to young alive.
(b) Feathers – Ostrich
Scales – Tilapia, Snake, Swordtail
Hair – Platypus, Elephant, Monkey, Dolphin

Q31 (a) False
(b) True
(c) False

Q32 It needs to be waterproof as it is exposed to water in the bathroom and it needs to be strong to hold the toiletries place on it.

Q33 (a) Group A: Natural
Group B: Man-made
(b) Man-made – Flexible, Silk, wool, cotton, paper
Once Alive – Stiff, wood, glass, ceramics

Q34 (a) (i) Metal is strong. It can withstand the weight of the cleaner without breaking.
(ii) Plastic is flexible. It allows the bristles to bend, sweeping the dirt away.
(iii) Plastic does not break easily so when the person use it, it would not fall.

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