



**YANGZHENG PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1**

2011

PRIMARY THREE

**SCIENCE
BOOKLET A**

Name : _____ ()

Date : 06 May 2011

Class : P3 ()

Parent's Signature : _____

10 Printed pages

20 Questions

40 Marks

Duration: 1 hour 30 minutes (Booklets A and B)

INSTRUCTIONS TO CANDIDATES

Do not open the booklet until you are told to do so.

Follow all the instructions carefully.

Answer all the questions.

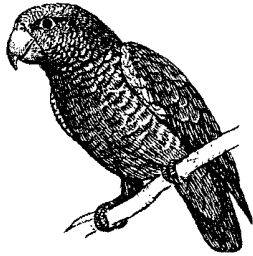
For each question from 1 to 20, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade your answer on the Optical Answer Sheet (OAS).

(40 marks)

1 Which of the following objects are grouped correctly?

	Living things	Non-living things
(1)	Ceramic Pot	Book
(2)	Seed	Eraser
(3)	Fish	Seed
(4)	Tyre	Vase

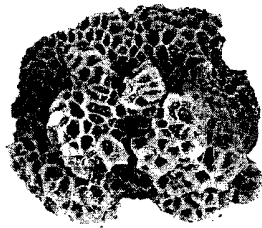
2 Which of the following cannot respond to changes?



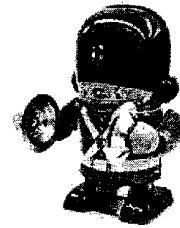
(1) Parrot



(2) Rose Plant



(3) Coral



(4) Toy Soldier

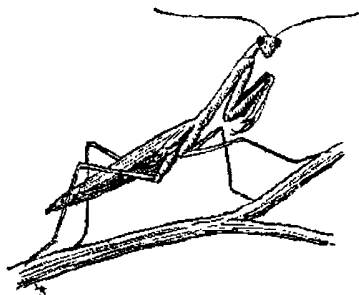
3 Which one of the following gives birth to its young alive?

- (1) Frog
- (2) Whale
- (3) Peacock
- (4) Mosquito

4 The following are characteristics of all living things except for the ability to

- (1) grow
- (2) reproduce
- (3) make food
- (4) move on its own

5 Francine found a praying mantis and a dragonfly in her garden.



Praying Mantis



Dragonfly

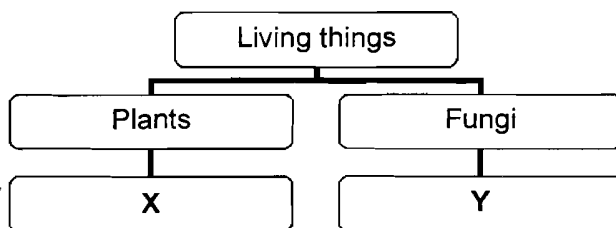
She wanted to find out if both organisms are insects.

Which of the following activities will help her come to a conclusion that both organisms are insects?

- A: Measure the body length
- B: Count the number of legs
- C: Look for the presence of wings
- D: Count the number of body parts

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

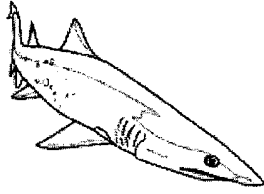
6 Study the following classification diagram carefully.



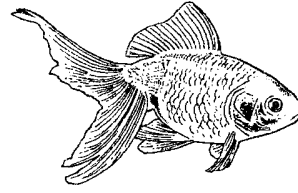
Which of the following correctly represents X and Y?

	X	Y
(1)	Frangipani	Moss
(2)	Hibiscus	Staghorn Fern
(3)	Bird's Nest Fern	Jew's Ear
(4)	Toadstool	Rafflesia

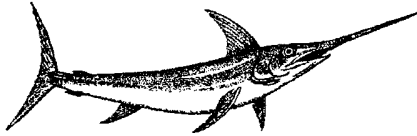
The animals shown below live in habitats where they stay underwater for long periods of time.



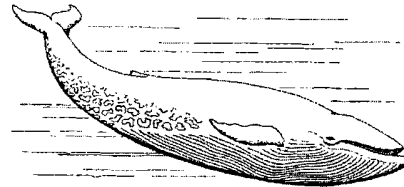
Shark



Goldfish



Swordfish

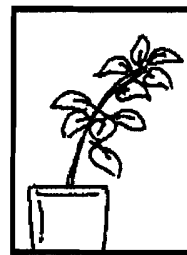
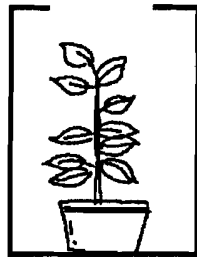


Blue Whale

Which animal differs from the rest in the way it breathes?

- (1) Shark
- (2) Goldfish
- (3) Swordfish
- (4) Blue Whale

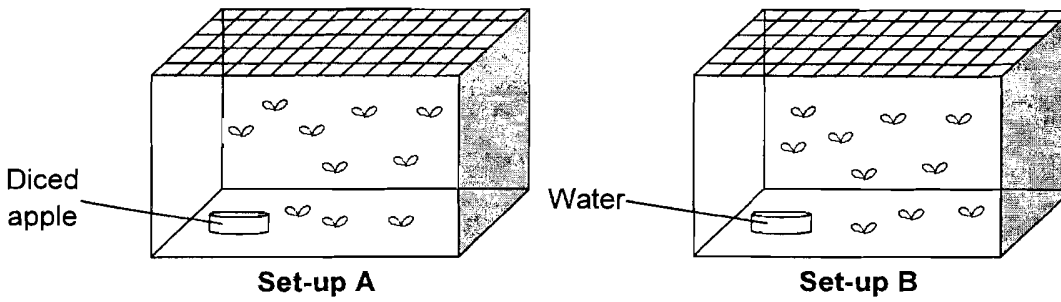
8 The picture below shows two plants placed in boxes with holes cut out at different positions.



Which characteristic(s) of living things is illustrated in the picture shown?

- A: Living things die.
 - B: Living things reproduce.
 - C: Living things move on their own.
 - D: Living things respond to changes.
-
- A and B only
 - C and D only
 - B, C and D only
 - All of the above

9 Hayley placed some fruit flies into two containers as shown below.



She observed the set-ups over a few days and recorded the number of fruit flies as shown in the table below.

Day	Set-up A	Set-up B
0	10	10
1	10	9
2	9	7
3	8	5
4	7	3
5	X	Y

Based on the results in the table, how many fruit flies will Hayley find in each set-up on Day 5?

	X	Y
(1)	0	4
(2)	3	4
(3)	5	5
(4)	6	0

10 A group of pupils made the following statements about reproduction in animals.

- Andy: Guppies lay eggs.
- Bree: Bats give birth to their young alive.
- Carla: Ants give birth to their young alive.
- Dave: Ostrich lays eggs with a hard shell.

Which pupils made the correct statements?

- (1) Andy and Bree
- (2) Andy and Carla
- (3) Bree and Dave
- (4) Carla and Dave

- 11 The table below shows some objects classified according to the materials that they are made of.

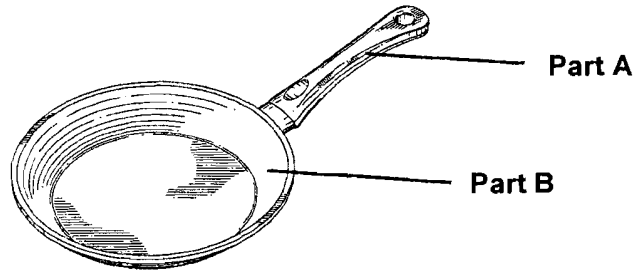
Material	
A	B
Door	Drinking Straw
Table	Spoon
Pencil	Water bottle
Cupboard	Food container

Which of the following is the best heading for A and B?

- (1)
(2)
(3)
(4)

A	B
Wood	Plastic
Wood	Rubber
Steel	Wood
Steel	Rubber

- 12 The picture below shows a frying pan.



Which of the following shows the most likely materials used to make Part A and B?

- (1)
(2)
(3)
(4)

Part A	Part B
Plastic	Stainless Steel
Rubber	Plastic
Glass	Aluminium
Stainless Steel	Plastic

- 13 Aluminium is a metal that is commonly used to make many objects around us, such as the aluminium foil.

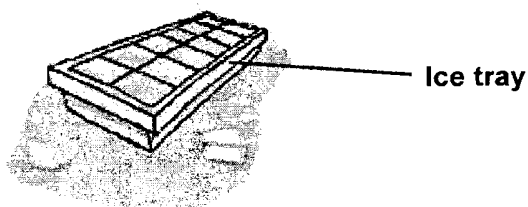


Which of the following correctly describes the characteristics of aluminium?

- A: It is lightweight.
- B: It can bend easily.
- C: It does not rust easily.
- D: It is very strong as compared to other metals.

- (1) A and B only
- (2) C and D only
- (3) A, B and C only
- (4) All of the above

- 14 The picture below shows an ice tray made from plastic.



Which of the following statement about the plastic used to make the ice tray is **false**?

- (1) Plastic is flexible.
- (2) Plastic is waterproof.
- (3) Plastic is light in weight.
- (4) Plastic is a magnetic material.

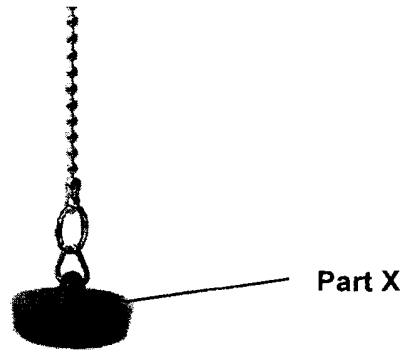
5 The picture below shows a boat.



The **most important** characteristic to consider when making a boat is whether the material used is

- _____
- ~~(1)~~ hard
 - ~~(2)~~ flexible
 - ~~(3)~~ transparent
 - ~~(4)~~ able to float on water

16 The picture below shows a sink plug which is used to stop water from draining out of a sink or a bathtub.



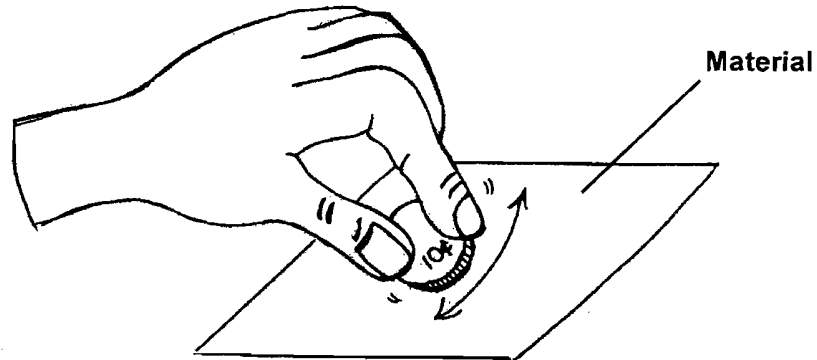
The table below shows the properties of four materials; A, B, C and D.

	A	B	C	D
Flexible	✓		✓	
Waterproof	✓	✓	✓	✓
Breaks easily				✓
Ability to float on water	✓	✓		

Which material is most suitable for making **Part X** of the sink plug?

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

- 20 Veron wanted to test the hardness of 4 materials, P, Q, R and S. She used a coin to scratch 5 times on samples of each material as shown below.



Then she recorded her observation in the table.

Material	Observation
P	Light scratches on surface
Q	Deep scratches on surface
R	A hole in material
S	No scratches on surface

Which of the following shows the correct order of the materials from the **hardest to the softest**?

- ~~(1)~~ P, Q, R, S
- ~~(2)~~ S, P, Q, R
- ~~(3)~~ R, Q, P, S
- (4)** S, Q, R, P

END OF BOOKLET A

17 Three classmates made the following statements about the properties of flexible materials.

Elvin: Flexibility is about how strong a material is.

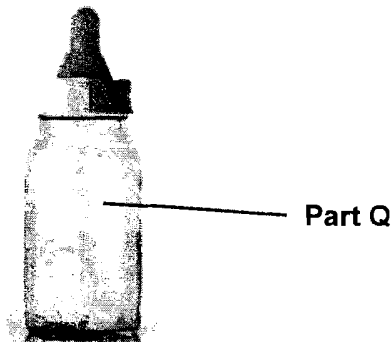
Finn: Flexibility is about how much a material can be bent.

Gavin: Flexibility is about how much a material can be stretched.

Which of the classmates made the **correct** statement?

- ~~(1)~~ Elvin only
- ~~(2)~~ Finn only
- ~~(3)~~ Gavin only
- ~~(4)~~ None of the classmates

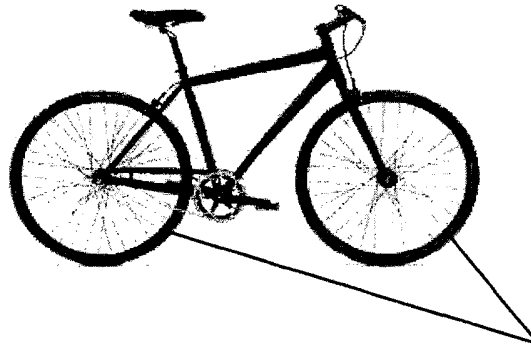
18 A company is going to make a range of milk bottles for babies and young children. They decided to use plastic to make Part Q of the milk bottle.



The **main reason** why plastic is chosen instead of metal is because plastic is _____.

- ~~(1)~~ durable
- ~~(2)~~ lightweight
- ~~(3)~~ transparent
- ~~(4)~~ not easily scratched

- 19 The statement below describes the characteristic(s) of materials A, B, C and D that could be used to make bicycle tyres.



**Bicycle
tyres**

- Material A: It is flexible.
Material B: It is strong.
Material C: It is hard and strong.
Material D: It is hard and flexible.

Which material has the same characteristic(s) as rubber?

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



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**SCIENCE
BOOKLET B**

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Parent's Signature : _____

6 Printed pages

6 Questions

20 Marks

Duration: 1 hour 30 minutes (Booklets A and B)

INSTRUCTIONS TO CANDIDATES

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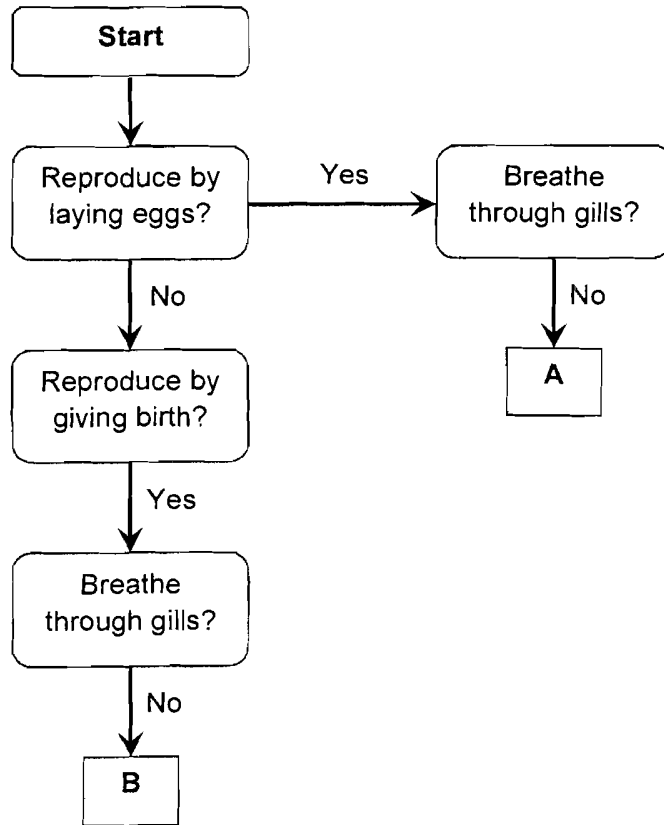
Answer all the questions.

Section A	40
Section B	20
Total	60

For questions 21 to 26, write your answer in this booklet.
The number of marks available is shown in brackets [] at the end of each question or part question.

(20 marks)

21 Study the flow chart as shown below carefully.



(a) **Classify** the TWO animals into A and B respectively. [2]

Elephant	Penguin
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A: _____

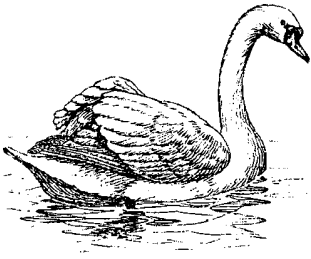

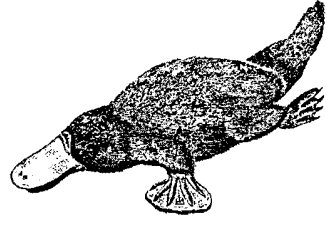
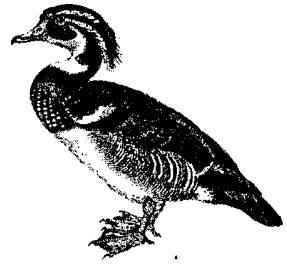
B: _____

(b) State the outer covering of the animal in **B**. [1]

B's outer covering is _____.

SCORE	/
	3

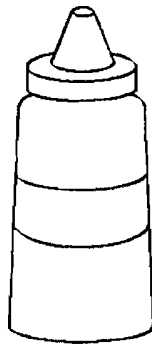
22 The table below shows four animals that can be found near rivers.

			
Swan	Woodpecker	Platypus	Duck

(a) Which animal does not belong to the same group? [1]

(b) Identify the group which the other 3 animals can be placed in. [1]

23 The two bottles of tomato sauce shown below are made of different materials.



Bottle A
(Can be squeezed and does not break easily)



Bottle B
(Cannot be squeezed and breaks easily)

(a) State the most likely materials for the two bottles. [2]

Bottle A: _____

Bottle B: _____

B-2

(Go on to the next page)

SCORE	
	4

When Chanel went to the supermarket with her mother, Mrs. Wong, she told Chanel to buy the tomato sauce in Bottle A.

Chanel: Why should we buy Tomato sauce in Bottle A?

Mrs. Wong: Bottle A is better as it is **safer and easier to use**.

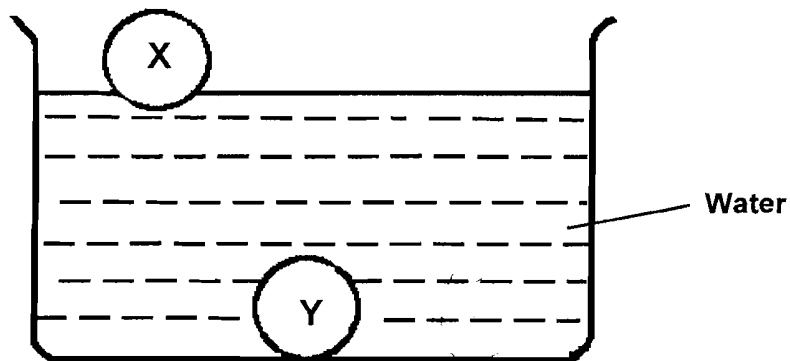
(b) According to what Mrs. Wong said, state the **two properties** that made Bottle A a better choice than Bottle B. [2]

Property 1: _____

Property 2: _____

24 Noah placed two balls made of different materials in a basin.

The diagram shows the respective position of the balls when water was poured into the basin.



(a) Match the balls with the right materials. [2]

- (i) Ball X • Rubber
- (ii) Ball Y • Styrofoam

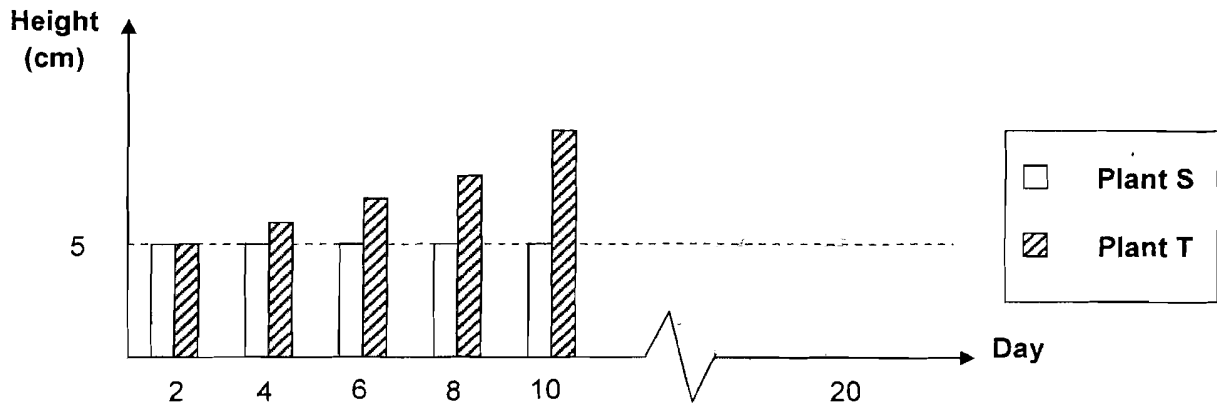
(b) Noah later placed Ball W which is made of metal into the basin.

Draw Ball W in the exact position after it is dropped into the water. [1]

SCORE	/
	5

25 Quinn carried out an experiment with two plants. She watered them daily and placed them in a well-lit area.

She measured the height of the two plants over 10 days. Her observation is represented by the bar graph below.



At the end of 10 days, Quinn realised that one of the plant is a fake plant.

(a) Which plant is the fake plant? [1]

Plant _____

(b) State **two** characteristics of living things that are shown by this experiment. [2]

Characteristic 1: _____

Characteristic 2: _____

Quinn then placed both plants in a dark room for another 10 days and watered the plants daily.

Quinn then recorded the height of the plants at the end of 20 days.

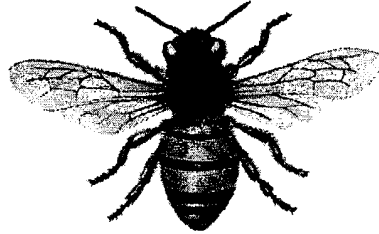
(c) **Draw the next two bars in the graph** to represent the height of Plant S and Plant T.

[2]

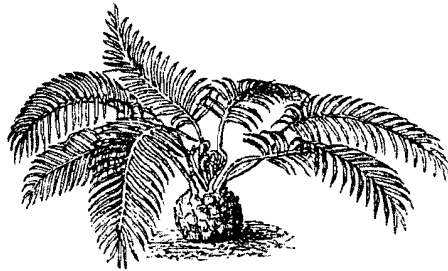
26 Three classmates made the following statements about the organisms in the pictures.

Rewrite their statements with the correct answers.

(a) Bella: This bee is an insect because it has wings. [1]



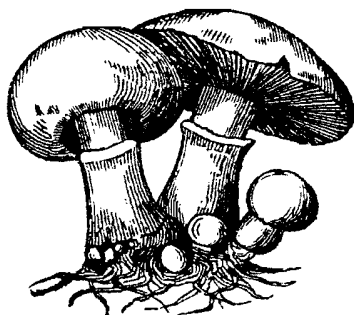
(b) Jacob: This fern is a type of fungi which reproduces through spores. [1]



SCORE	
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(c) Edward: The mushroom is a fungi that can make its own food.

[1]



END OF BOOKLET B

SCORE	1
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1	2	3	4	5	6	7	8	9	10
2	4	2	3	2	3	4	2	4	3
11	12	13	14	15	16	17	18	19	20
1	1	3	4	4	3	2	2	4	2

21 (a) A : Penguin B : Elelphant

21 (b) hair

22 (a) The platypus does not belong to the same group.

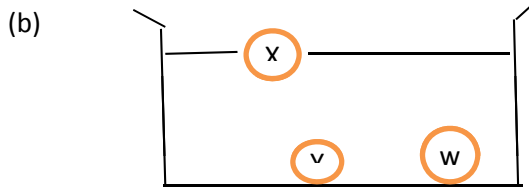
22 (b) Birds

23 (a) A : Plastic B : Glass

23 (b) Property 1 : It does not break easily

Property 2 : It can be squeezed easily

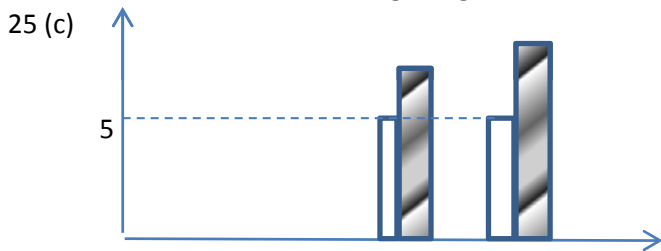
24 (a) i) Ball X Rubber
 ii) Ball Y Styrofoam



25 (a) Plant S

25 (b) Characteristic 1 : Living things grow

Characteristic 2 : Living things need water and sunlight.



26 (a) The bee is an insect because it has three body parts and it has six legs.

26 (b) This fern is a non-flowering plant which reproduces through spores.

26 (c) The mushroom is a fungi that cannot make its own food