

MAHA BODHI SCHOOL
2012 SEMESTRAL ASSESSMENT 1
PRIMARY THREE SCIENCE

Name : _____ ()

Date : 10 May 2012

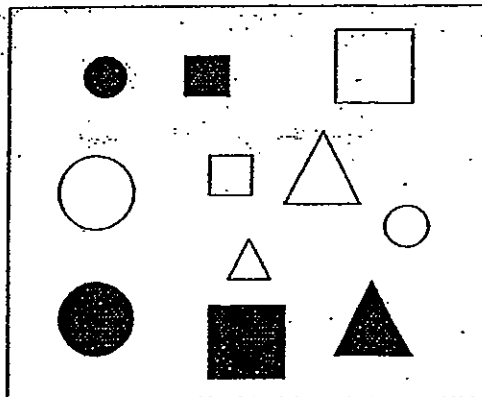
Class : Primary 3 _____

Duration : 1 h. 15 min (Booklets A and B)

BOOKLET A : [15 x 2 marks = 30 marks]

For each question from 1 to 15, 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.

1. Study the objects shown below.



The objects can be grouped according to _____

- A. sizes
 - B. shapes
 - C. textures
 - D. patterns
- (1) A and B only
(2) B and D only
(3) A, C and D only
(4) A, B and C only

2. Which of the characteristics shown below can be used to describe all birds?

- A. They can fly.
- B. They lay eggs.
- C. They have wings.
- D. They have feathers.

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

3. Which of the following statements is/are true of all mammals ?

- A. They live on land.
- B. They have four legs
- C. They have hair on their bodies.

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

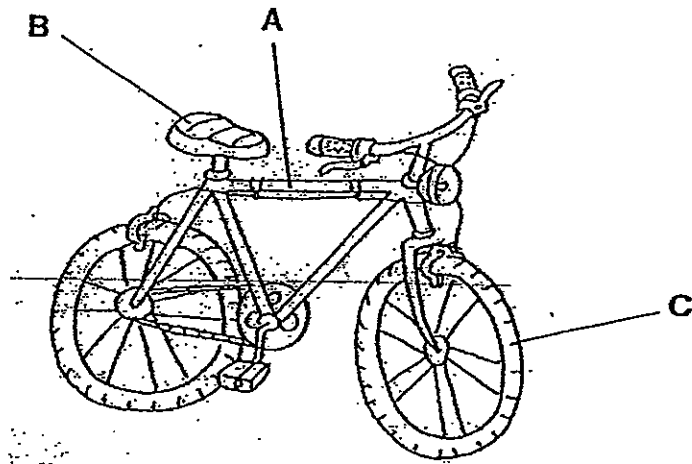
4. The following pupils made the following statements about fungi and bacteria.

- Ally: Some fungi can be eaten.
- Ben: All bacteria are harmful to humans.
- Cessy: Fungi can make their own food.
- Dan: We use bacteria to help us make cheese and yoghurt.

Which of the following pupils are correct ?

- (1) Ally and Dan
- (2) Ben and Cessy
- (3) Ben, Cessy and Dan
- (4) Ally, Ben and Dan

5. Look at the diagram of a bicycle.



Which materials are most likely used to make the parts labelled A, B and C?

| | A | B | C |
|-----|---------|---------|---------|
| (1) | plastic | glass | metal |
| (2) | wood | leather | rubber |
| (3) | metal | leather | rubber |
| (4) | metal | wood | plastic |

6. The table below shows some objects classified under three different groups X, Y and Z.

| Group X | Group Y | Group Z |
|-------------|-----------|-------------|
| balloon | key | pillow case |
| rubber band | drink can | towel |

The objects in each group are classified according to its _____

- (1) size
- (2) shape
- (3) weight
- (4) material

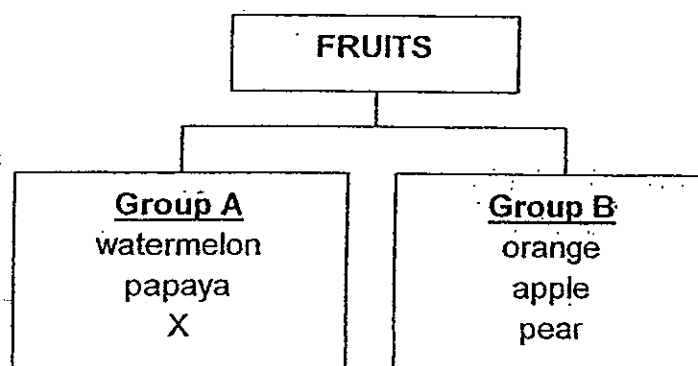
7. The table below shows the characteristics of P, Q, R and S. A tick (✓) shows that the thing has the characteristic.

| Things | Needs air, food and water | Reproduces | Moves | Responds to changes |
|--------|---------------------------|------------|-------|---------------------|
| P | | | | ✓ |
| Q | ✓ | ✓ | ✓ | ✓ |
| R | | | ✓ | ✓ |
| S | ✓ | ✓ | | ✓ |

Which of the following statements is/ are true about P, Q, R and S?

- A. S is a plant.
 B. Only Q and S are living things.
 C. P and R are non-living things.
 D. P, Q, R and S are all alive.
- (1) A only
 (2) A and D only
 (3) B and C only
 (4) A, B and C only

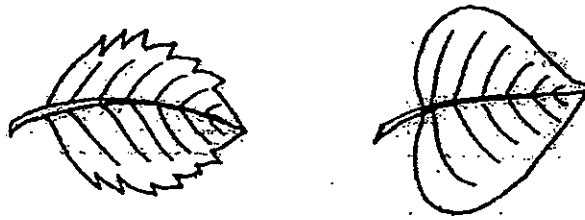
8. Study the classification table below.



"X" is a fruit with _____.

- (1) many seeds
 (2) a few seeds
 (3) one seed
 (4) no seed

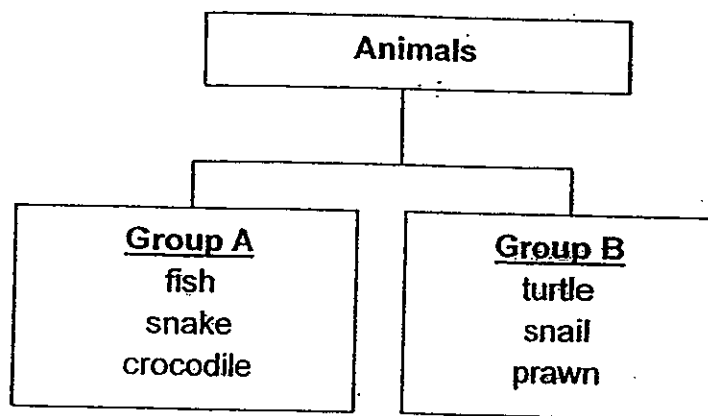
9. The diagram below shows two leaves.



Based on the diagram, how are the leaves similar?

- (1) They have the same shape.
- (2) They have the same edges.
- (3) They have rough surfaces
- (4) They have the same type of vein pattern

10. Study the classification chart below



The animals in both groups are classified according to _____.

- (1) their shape
- (2) the way they move
- (3) the place they live
- (4) their outer coverings

11. Study the table below.

| Animals | Does it eat only plants? | Does it feed on its mother's milk? | Does it live on land? |
|---------|--------------------------|------------------------------------|-----------------------|
| E | No | Yes | Yes |
| F | No | Yes | No |
| G | Yes | No | No |
| H | No | No | Yes |

Which of the following statements about the animals is/are true?

- A. Animal G must be a fish.
- B. Animals E and F are mammals.
- C. Animals E, F and H feed on other animals.

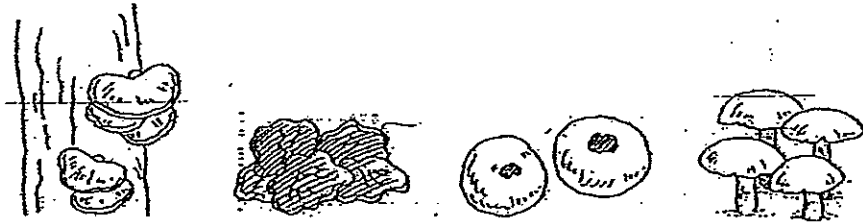
- (1) A only
- (2) B and C only
- (3) A, ^{and} B and ~~D~~ only
- (4) C and ~~D~~ only

12. How are the animals below classified ?

| Group A | Group B |
|-----------------------|--------------------|
| Goldfish Angelfish | Ostrich Penguin |

| | Group A | Group B |
|-----|---------------------------|------------------|
| (1) | can swim | can fly |
| (2) | have scales | have feathers |
| (3) | eats animals only | eats plants only |
| (4) | give birth to their young | lay eggs |

13 The pictures below show a group of living things.



They are similar because they _____.

- A. make their own food
- B. feed on animals
- C. reproduce by producing spores

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

14. Below is a classification table which shows some properties of materials, P, Q, R and S.

| Material | Breaks easily | Gets hot easily | Waterproof |
|----------|---------------|-----------------|------------|
| P | ✓ | ✓ | X |
| Q | ✓ | X | ✓ |
| R | X | ✓ | ✓ |
| S | X | X | X |

Which of the materials is most suitable for making a cooking pot?

- (1) P
- (2) Q
- (3) R
- (4) S

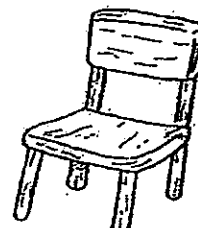
15. The pictures below show some objects.



rattan basket



leather gloves



wooden chair

In what way are the objects similar ?

- A. They do not break easily.
 - B. They are each made of only one material.
 - C. They are flexible .
 - D. They can be seen through.
-
- (1) A and B only
 - (2) B and C only
 - (3) C and D only
 - (4) A, B and D only

END OF BOOKLET A

GO ON TO BOOKLET B



MAHA BODHI SCHOOL
2012 SEMESTRAL ASSESSMENT 1
PRIMARY THREE SCIENCE

Name : _____ (.)

Class : Primary 3 (_____)

Duration : 1 h 15 min (Booklets A and B)

Date : 10 May 2012

Parent's Signature: _____

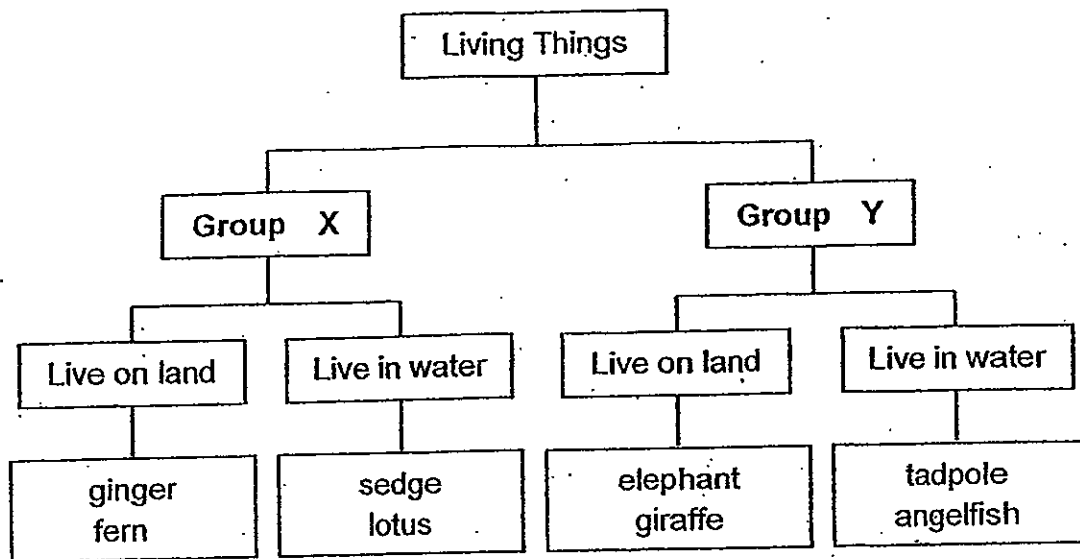
| | |
|---------------------------------|--|
| Booklet A (30 marks) | |
| Booklet B (20 marks) | |
| Performance Tests (50 marks) | |
| Total (100 marks) | |

BOOKLET B : [20 marks]

For questions 16 to 21, write your answers in this booklet.

The number of marks available is shown in the brackets [] at the end of each question or part-question.

16. Study the classification table shown below.



(a) What suitable headings can you give for Groups X and Y? [1]

Group X : _____

Group Y : _____

(b) Based on the above classification table, state two reasons why the tadpole is similar to the angelfish. [1]

Reason 1 : _____

Reason 2 : _____

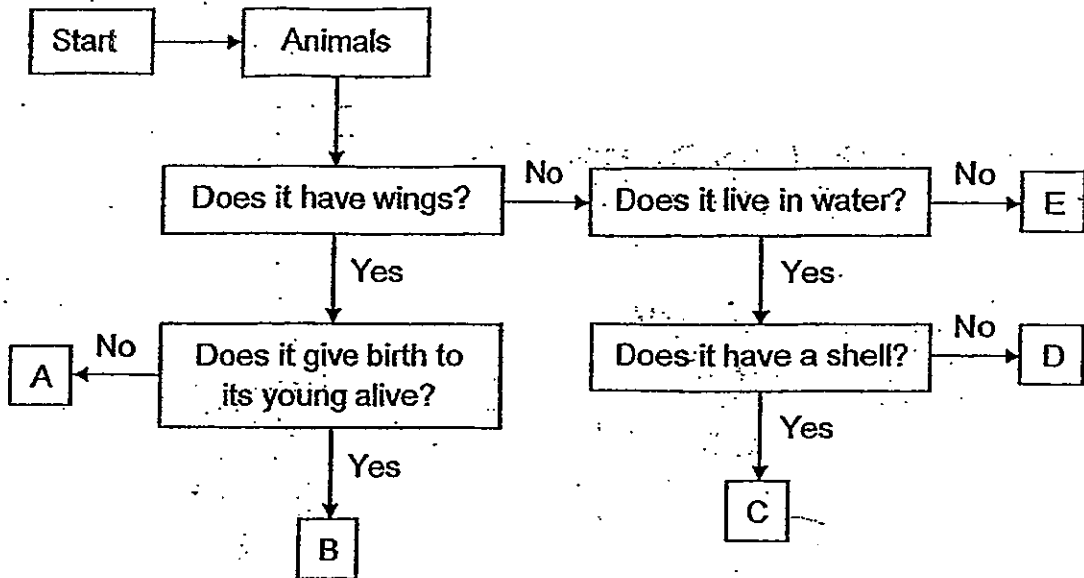
(c) Living things need air, food and water. State two other characteristics that living things have. [2]

(1) _____

(2) _____

Marks :

17. The flowchart below can be used to identify 5 different animals represented by the letters A, B, C, D and E.



- (a) What are the two common characteristics between animals C and D? [2]

(1) _____

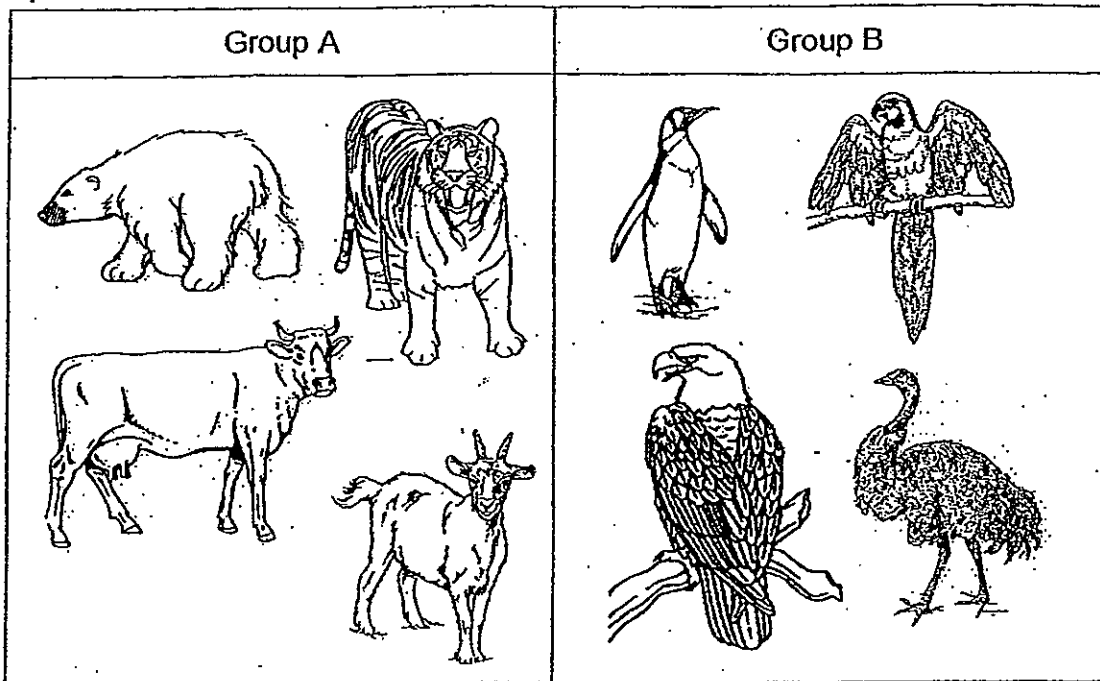
(2) _____

- (b) How are animals A and B different? [1]

Marks :

| |
|-----|
| / 3 |
|-----|

18. The animals below belong to two main groups based on their common characteristics.



State two differences in the common characteristics that the animals in these two groups have. [2]

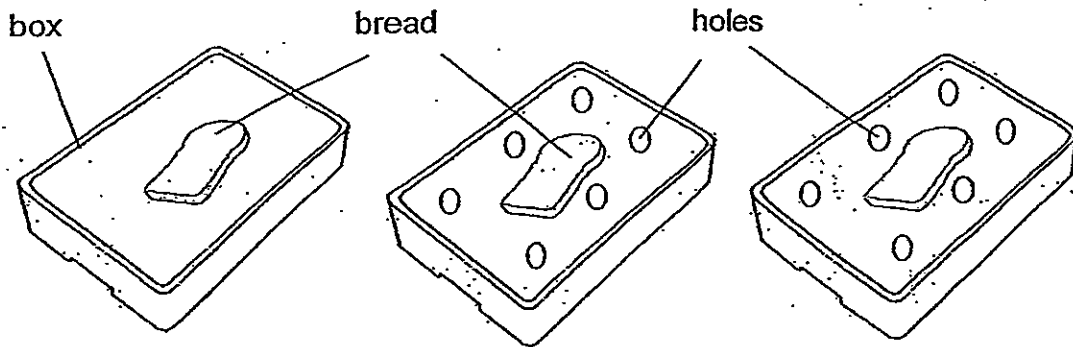
(i)

(ii)

Marks :

12

19. Ali conducted an experiment with three slices of bread in three set-ups, A, B and C. He sprinkled water on two slices of bread before he placed all three slices in separate boxes. He then closed the cover of the boxes.



| Set-up A | Set-up B | Set-up C |
|-------------------|----------------|----------------|
| Damp bread | Damp bread | Dry bread |
| Box with no holes | Box with holes | Box with holes |

After three days, he noticed dark grey spots growing over the slice of bread in one of the set-ups. There were no spots on the bread in the other set-ups.

- (a) The dark grey spots growing on the bread are mould. They belong to a group of living things. What is the name this group of living things? [1]

- (b) In which set-up did Ali notice the dark grey spots? [1]

- (c) What does Ali's observation show about living things?

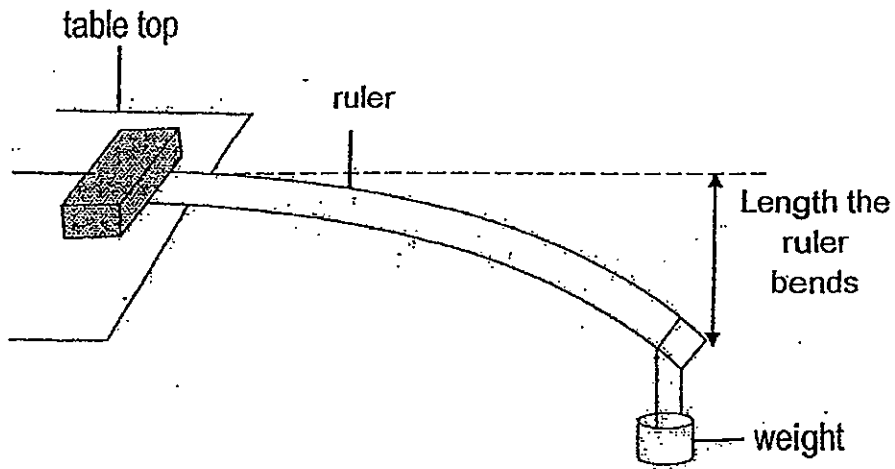
- (d) Ali said, "Moulds are plants." Do you agree with this statement? Explain your answer. [1]

Marks : / 4

20. Kelly has two rulers X and Y made of two different materials. Both are of the same length.

She sets up an experiment to investigate one property of the materials of the rulers. She fixes one end of the Ruler X to a table top and puts a weight on the other end.

She measures the length the ruler bends as shown in the diagram. She repeats the experiment with Ruler Y.



- (a) Which property of the materials is Kelly testing? [1]

- (b) Kelly records her results in the table below.

| | Ruler X | Ruler Y |
|-----------------------------|---------|---------|
| Length the ruler bends (cm) | 3 | 1 |

What does the result of the experiment tell Kelly about the property of the materials of the two rulers? [1]

Marks :

12

(c) Kelly wants to use a nail to find out which of the two materials of the rulers is harder.

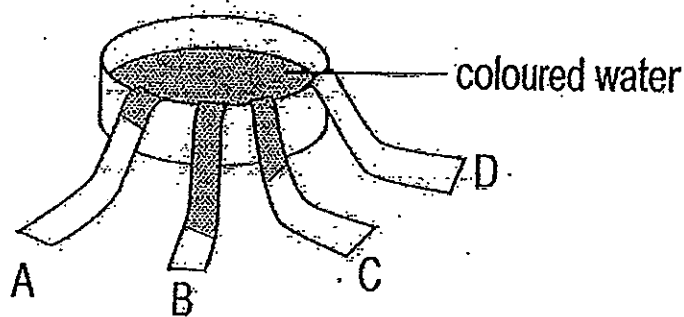
(i) What should she do ?

[1]

(ii) Kelly concludes that the material of Ruler X is harder than that of Ruler Y

What observation does she make to come to this conclusion? [1]

21. Mark carried out an experiment on 4 different materials, A, B, C and D. He cut the materials into strips of equal lengths. He placed one end of each strip of material into an empty dish and poured some coloured water into the dish. The diagram below shows what he observed at the end of the experiment.



(a) Arrange the materials in the correct order showing the least absorbent material to the most absorbent material. Write the letters A, B, C and D in the spaces provided below: [1]

_____ least absorbent _____ most absorbent _____

Marks :

13



- (b) Based on the results of the experiment, which material, A, B, C or D would you use to make the objects shown in the diagram below? Explain your choice of the material.



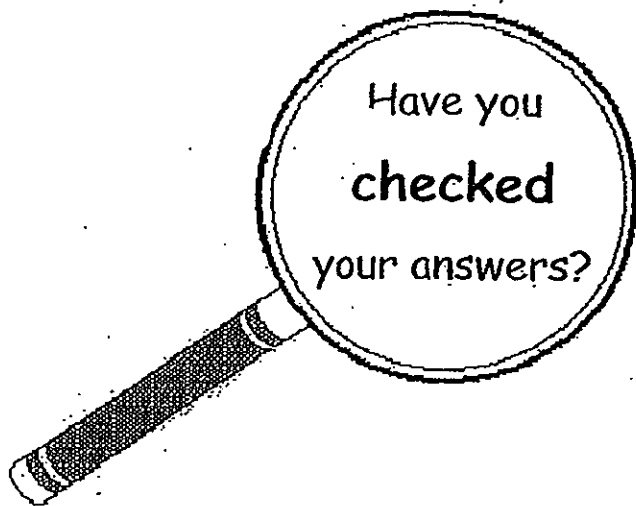
Material for the raincoat : _____

Reason : _____ [1]

Material for Part X of the mop : _____

Reason : _____ [1]

END OF PAPER ~



B-8

Marks :

12

137



ANSWER SHEET

EXAM PAPER 2012

**SCHOOL : MAHA BODHI
SUBJECT : PRIMARY 3 SCIENCE**

TERM : SA1

| | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
| 1 | 3 | 2 | 1 | 3 | 4 | 3 | 1 | 4 | 4 | 2 | 2 | 2 | 3 | 1 |

16)a)X: Plants Y: Animals

b)1: Both live in water. 2: Both swim in water

c)1) Living things reproduce by laying eggs or giving birth to young alive.
2) Living things respond to changes.

17)a)1)Both live in water. 2)Both do not have wings.

b)Animal B gives birth to young alive while Animal A does not.

18)i)The animals in Group A have hair while the animals in Group B have feathers.

ii)The animals in Group B have a beak while the animals in Group A have mouths.

19)a)The name if fungi.

b)In set-up B.

c)Living things need air, food and water to grow.

d)No. Unlike plants, mould cannot make their own food.

20)a)Kelly is testing how flexible is the material.

b)Ruler X is more flexible than Ruler Y.

20)c)i)She should scratch the rules with the nail.

ii)Ruler Y has more scratches than Ruler X.

21)a)D , A , C , B

b)D

It is waterproof

B

It absorbs the most water

