

RIVER VALLEY PRIMARY SCHOOL  
CONTINUAL ASSESSMENT 1 / 2017  
PRIMARY 4

SCIENCE  
(BOOKLET A)

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

Date : 6 March 2017

Class : P4 \_\_\_\_\_

Total Time for Booklet A & Booklet B : 1 hour

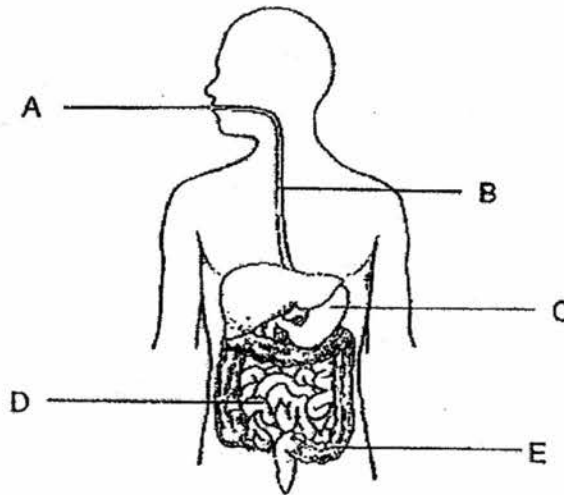
**INSTRUCTIONS TO CANDIDATES**

1. Write your name, index number and class in the space above.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. For Section A, shade your answers for questions 1 to 10 in the Optical Answer Sheet (OAS) provided.
6. For Section B, write your answers for questions 11 to 15 in the space provided in the booklet.
7. The total marks for Booklet A is 20 marks.

**Section A (20 marks)**

For each question 1 to 10, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

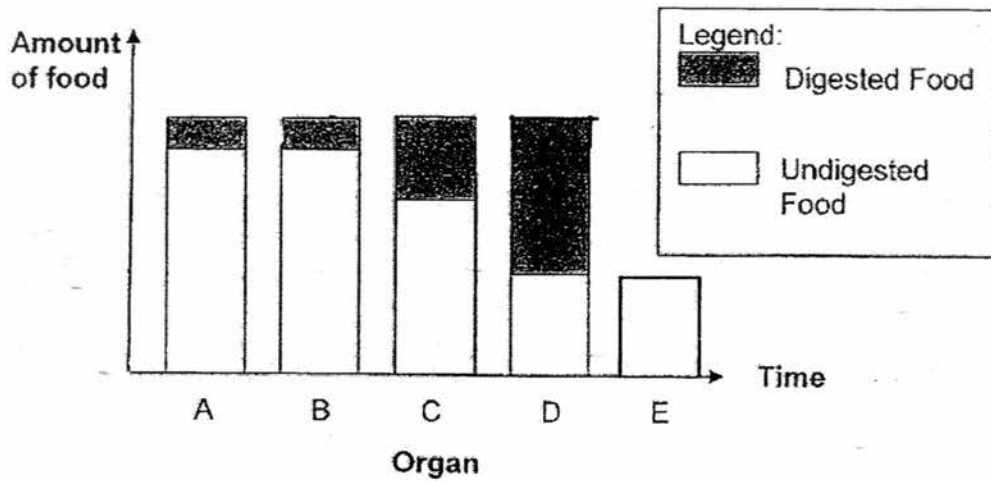
1. In the diagram below, A, B, C, D and E are parts of the digestive system.



Which parts of the system produce digestive juices?

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

2. Melissa ate a sandwich during recess. The bar graph below shows the amount of digested and undigested sandwich in her five organs, A, B, C, D and E of the digestive system at the end of the day.



Which one of the following most likely represents Organ E?

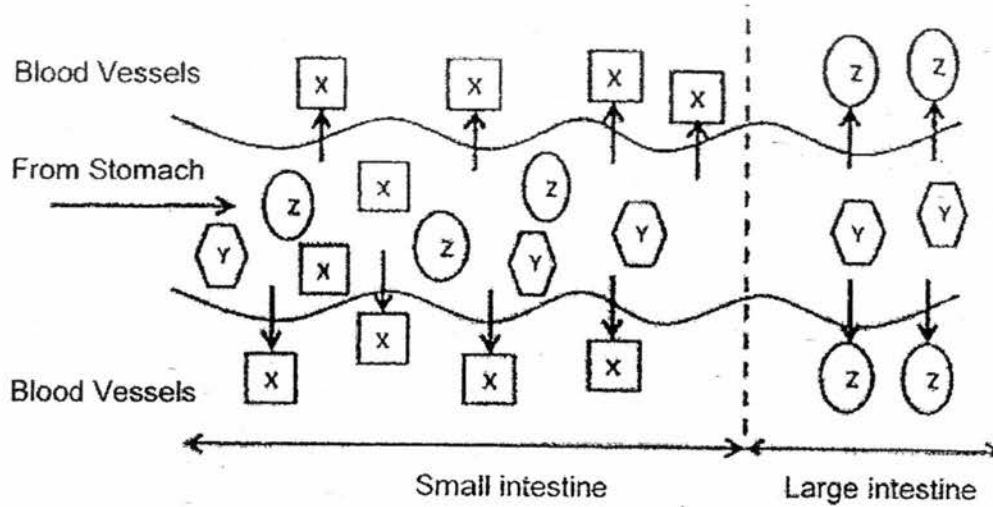
- ( 1 ) Mouth
- ( 2 ) Stomach
- ( 3 ) Small intestine
- ( 4 ) Large intestine

3. Which of the following statements are true about the human digestive system?

- A: All the food goes into the large intestine.
- B: Digested food is used as energy for the body.
- C: Undigested food remains in the small intestine.
- D: Digested food passes through the walls of small intestine into the blood.
- E: The blood carries the digested food to all parts of the body.

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

4. The diagram below represents parts of the human digestive system. X, Y and Z represent different substances that are absorbed into the blood as shown below.



Based on the diagram above, which one of the following best represents substances X, Y and Z?

	Substance X	Substance Y	Substance Z
(1.)	Water	Digested Food	Undigested Food
(2)	Digested Food	Undigested Food	Water
(3)	Water	Undigested Food	Digested Food
(4)	Undigested Food	Digested Food	Water

5. An ambulance can sound its siren and flash its light. However, it is not a living thing because it cannot \_\_\_\_\_.

- A: Grow
- B: Reproduce
- C: Respond to changes

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

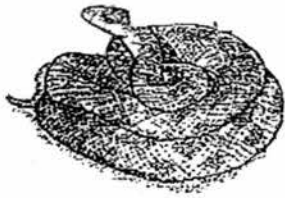
6. Tanya put 200g of food and 200ml of water into each of the four containers A, B, C and D. She then placed them in a room and recorded the amount of food and water left at the end of 4 days.

Container	Amount of food left (g)	Amount of water left (ml)
A	70	80
B	200	200
C	25	10
D	110	95

Based on the information above, which container is likely to contain a non-living thing?

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

7. Study the animals shown below.



Animal X



Animal Y

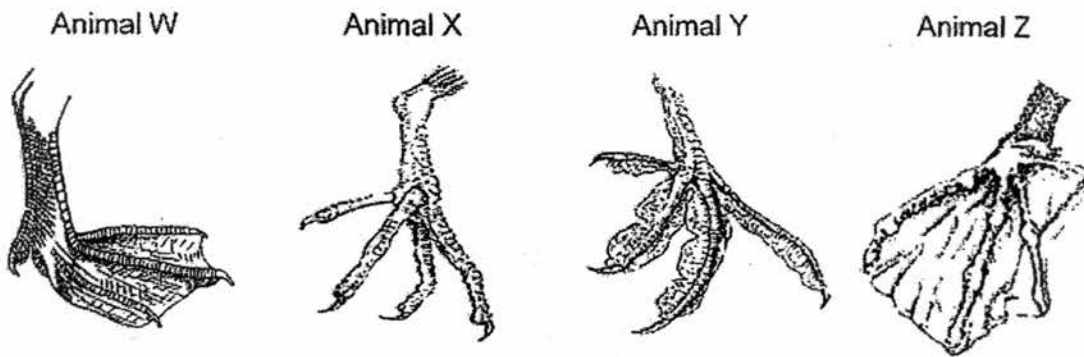
What do Animal X and Animal Y have in common?

- (1) The way they reproduce
- (2) The way they move
- (3) The type of food they eat
- (4) The type of outer covering

8. Mei used a pair of flippers as shown in the diagram below to swim during her swimming lesson.



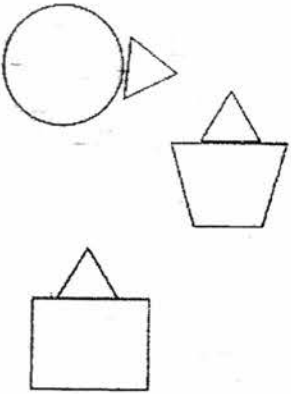
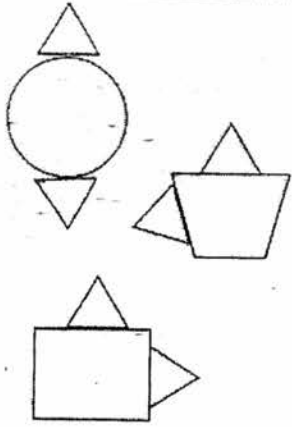
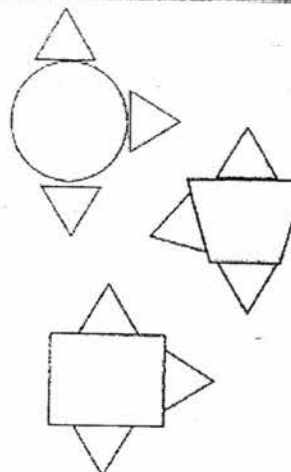
She observed some birds in the diagram below. She observed that their feet also help them to swim in water.



Which of the animal(s) feet help them to swim in the water?

- (1) W only
- (2) X and Y only
- (3) W and Z only
- (4) W, Y and Z

9. Study the groups of objects below.

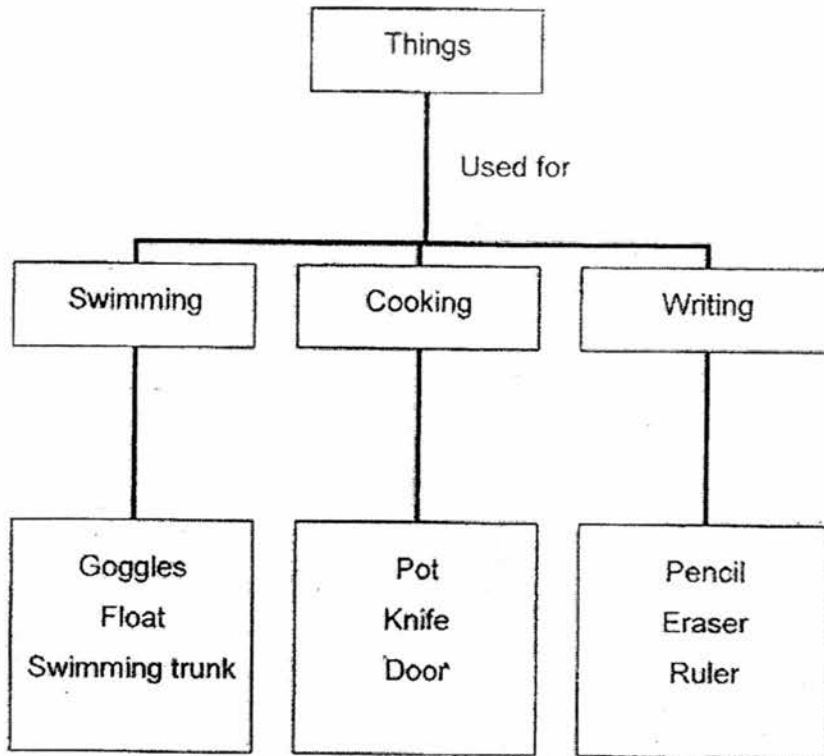
Group 1	Group 2	Group 3
		

The objects are grouped according to \_\_\_\_\_.

- (1) size
- (2) shape
- (3) number of sides
- (4) number of triangles



10. Look at the classification chart below.



Which one of the following things has been wrongly classified?

- (1) Door
- (2) Knife
- (3) Eraser
- (4) Goggles

~ End of Section A ~

RIVER VALLEY PRIMARY SCHOOL  
CONTINUAL ASSESSMENT 1 / 2017  
PRIMARY 4

SCIENCE  
(BOOKLET B)

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

Date : 6 March 2017

Class : P4 \_\_\_\_\_

Total Time for Booklet A & Booklet B : 1 hour

**INSTRUCTIONS TO CANDIDATES**

1. Write your name, index number and class in the space above.
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6. For Section B, write your answers for questions 11 to 15 in the space provided in the booklet.
7. The total marks for Booklet B is 20 marks.

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

**Section B (20 marks)**

Write your answers for questions 11 to 15 in this booklet.

11. Akbar ate some food containing 500g of substance P, Q, and R.

The table below shows the amount of undigested food left in different parts (A, B, C and D) of his digestive system.

Amount of undigested food left in the different parts (g)				
	Part A	Part B	Part C	Part D
Substance P	500	300	150	100
Substance Q	500	500	500	500
Substance R	300	100	0	0

(a) In which part of the digestive system (A, B, C or D) did digestion of Substance R begin? [1m]

\_\_\_\_\_

(b) Which of the three different substances (P, Q or R) could not be digested? Explain your answer. [1m]

\_\_\_\_\_

\_\_\_\_\_

(c) How does the human body get rid of undigested food in the digestive system? [1m]

\_\_\_\_\_

\_\_\_\_\_

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12. Jen placed two biscuits of the same size and type into two identical test-tubes.

She then crushed the biscuit in Set-up A into small pieces but left the whole biscuit in Set-up B as shown below.



The same type and amount of fruit juice was added into each set-up at the same time. After some time, Jen observed the amount of biscuit left in each test tube.

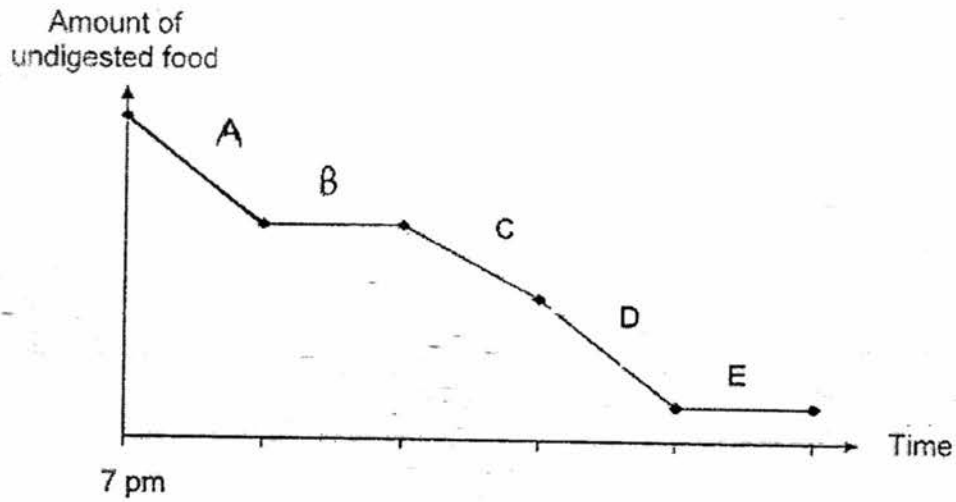
- (a) In which set-up (A or B) will the biscuit most likely turn into a fine pulp? Explain your answer. [2m]

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Yu Fei had his dinner at 7 p.m. The graph below shows the amount of undigested food left in the different organs over a period of time. A to E represents organs in the digestive system.



- (b) Based on the graph above, at which part(s) of the digestive system does/do digestion take place? Explain your answer. [2m]

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- (c) State what will happen if Part D, is removed from the human digestive system. [1m]

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13. Stool samples are waste materials that leave the human body via the human digestive system.

Bryan took two of his stool samples for test and recorded the amount of water in each stool sample in the table below.

Stool sample	Amount of water in the stool (cm <sup>3</sup> )
X	70
Y	15

- (a) Which part of his digestive system is mainly responsible for controlling the amount of water present in the stool? [1m]

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- (b) Which stool sample X or Y, shows that Bryan is **most** likely having a diarrhoea? Explain your answer. [1m]

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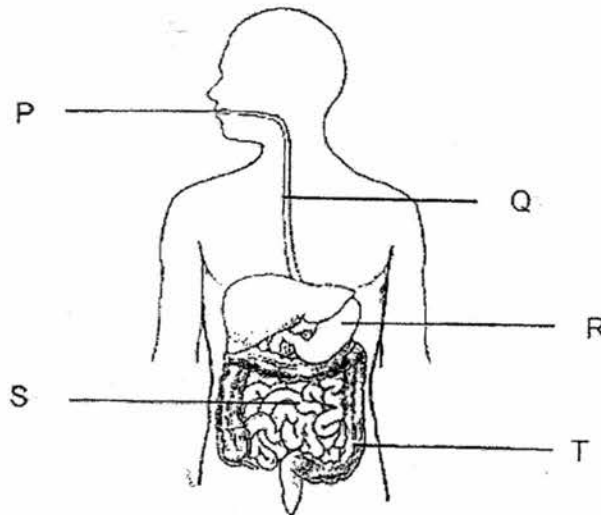
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- (c) State the missing organ which causes the following process in the human body. [1m]

Process	Missing organ
Food cannot travel from mouth to stomach	
Nutrients cannot be absorbed from digested food	

- (d) The diagram below shows parts (P, Q, R, S and T) of a digestive system. [1m]

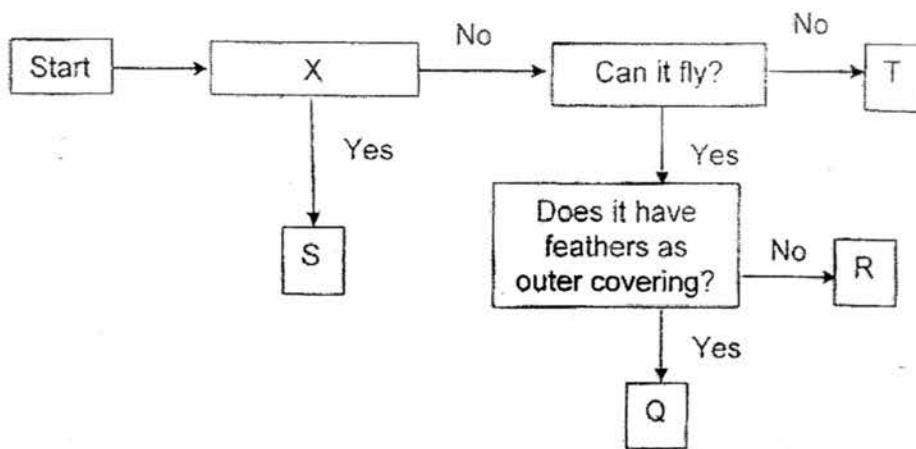


Based on the given diagram, identify the parts where

- (i) digestion first takes place: \_\_\_\_\_
- (ii) digestion does not take place: \_\_\_\_\_

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14. Study the flowchart below.



(a) Based on the flow chart above, describe one similarity and one difference between Animal Q and Animal R. [2m]

(i) Similarity:

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(ii) Difference:

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(b) If S is a plant, suggest a suitable question for X. [1m]

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(c) Wei Hern saw an animal in his school garden. Based on his observations, he concluded that it was an insect. Below is a diagram of the animal.



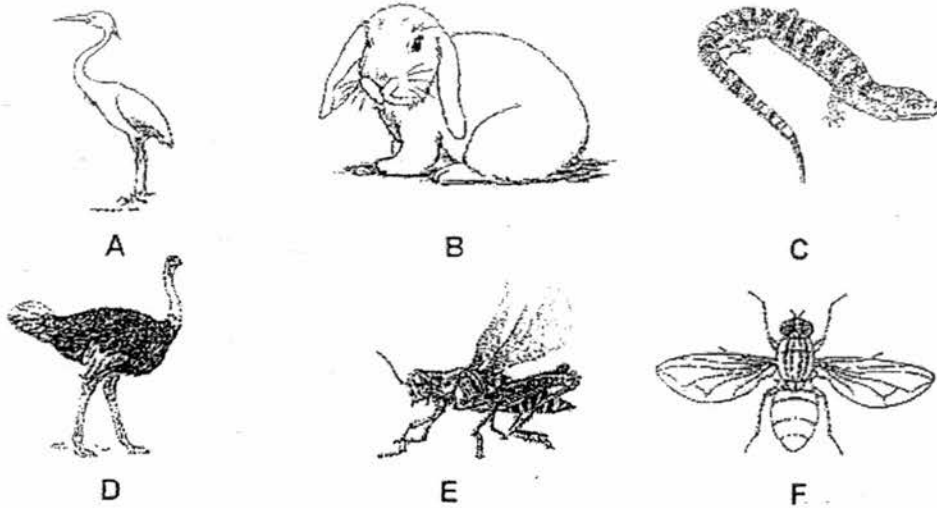
Do you agree with Wei Hern's conclusion? Give a reason. [1m]

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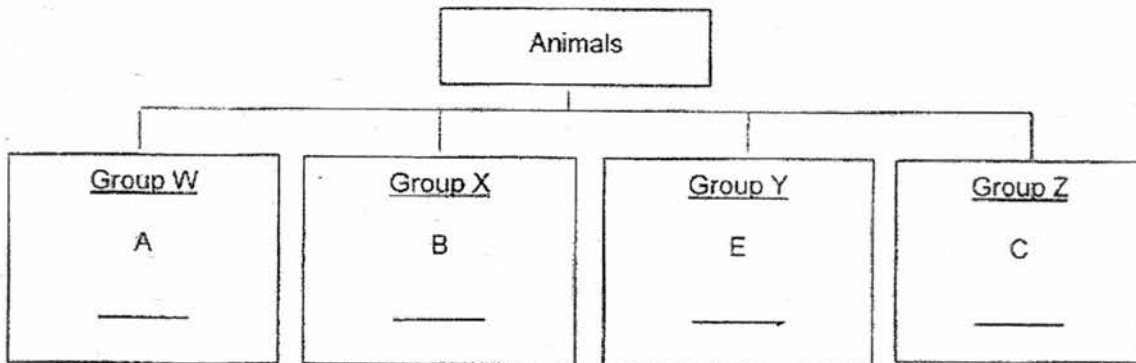
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15. Bala collected pictures of six animals (A, B, C, D, E and F) for his science project.



(a) He wanted to classify these animals based on their body covering. He used the table below to group the above animals into 4 groups, W, X, Y and Z. Complete the table below by putting in the letters D and F. [1m]



(b) Which group (W, X, Y or Z) should a snake be placed in? [1m]

\_\_\_\_\_

(c) State one characteristic, other than its body covering, shared by the snake and the animal(s) in the group it belongs to. [1m]

\_\_\_\_\_

\_\_\_\_\_

Bala regrouped the animals using another common characteristic as shown in the table below.

Group 1	Group 2
A, E, F	B, C, D

- (d) What characteristic did Bala use to regroup the animals as shown in the table above? [1m]

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~ End of Paper ~

**EXAM PAPER 2017 (P4)**

**SCHOOL : River Valley**

**SUBJECT : SCIENCE**

**TERM : CA1**

**ORDER CALL :**

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	4	2	2	4	2	1	3	4	1
Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	Q30

**11)a)Part A**

b)the amount of undigested food remained the same.

c)The undigested food will be passed out through the anus

**12)a)Set-up A will turn to a fine pulp because smaller pieces so it has larger surface area and it is faster to absorb the juice to turn into a pulp.**

b)The amount of undigested food decreases as it passes through A,C and D ,showing that food is digested.

c)Food cannot be digested properly.

**13)a)Large intestine**

b)There is more amount of water in sample X than sample Y.

c)Gullet

Small intestine

d)i)Part P

ii)Part Q and T

14)a)i)Both animal Q and animal R can fly

ii)Animal Q have feathers as outer covering but animal R does not.

b)Can it make its own food?

c)It does not have 3 body parts.

15)a)Group W – D

Group Y – F

b)Group Z

c)It belongs to group Z because it lay eggs.

d)Bala grouped according to can fly or cannot fly.