Rulang Primary School

MINI-TEST 1
SCIENCE
2024

Name: _____ ( )

Level: Primary 4

Class: Primary 4 ( )

Total Time: 45 minutes

Date: 8 May 2024

Total Marks: /30

Instructions to pupils:

1. **Do not open this booklet until you are told to do so.**
2. You are required to answer **all** the questions in this booklet.
3. This question booklet consists of 13 printed pages, including the cover page.

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Section A (8 x 2 marks)

For each of the questions from 1 to 8, four options are given. One of them is the correct answer. Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

1. Which of the following is not a matter?

   (1) air

   (2) sound

   (3) marble

   (4) magnet

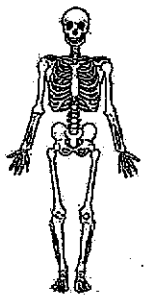
2. The table shows the properties of three substances, A, B and C.

	Substance		
Properties	**A**	**B**	**C**
Does it have a definite volume?	Yes	No	Yes
Does it have a definite shape?	No	No	Yes
Can it be compressed?	No	Yes	No

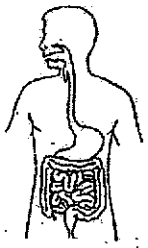
	A	B	C
(1)	Solid	Gas	Liquid
(2)	Liquid	Gas	Solid
(3)	Liquid	Solid	Gas
(4)	Gas	Liquid	Solid

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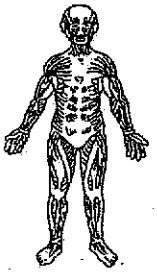
3. Study the following human body systems.



System A



System B



System C

Which of the following statements is correct?

(1) System A does not protect the organs in the human body.
(2) System B consists of the gullet, small intestine and lungs.
(3) System C helps to transport digested food to all parts of the body.
(4) System A must work with system C in order for the body to move.

4. The following statements describe a human body system.

The blood vessel is a part of this system.

This system works together with the digestive system.

Which of the following statements correctly describes a function of this human system?

(1) It takes air into the body.

(2) It helps to break down food.

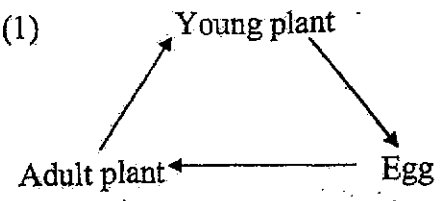
(3) It supports the body and gives it shape.

(4) It transports digested food and oxygen to the rest of the body.

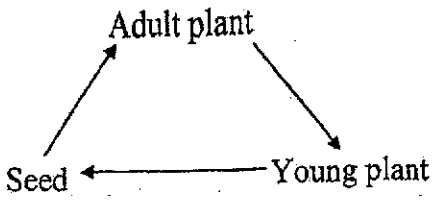
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5. Which one of the following correctly shows the life cycle of a flowering plant?

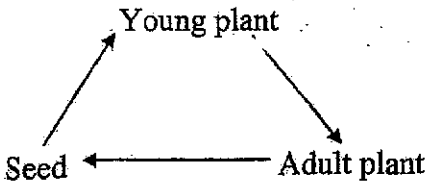
(1)



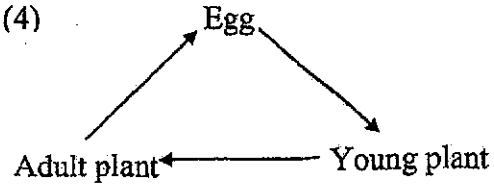
(2)



(3)

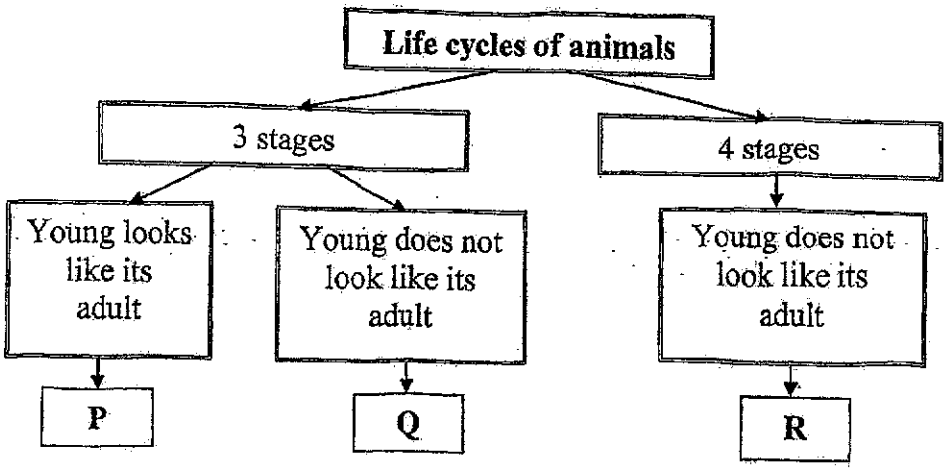


(4)



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6. Study the classification chart below.



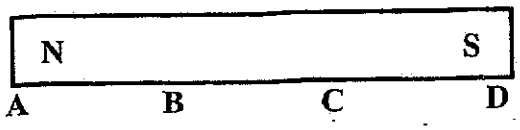
Which of the following animals correctly represent P, Q and R?

	P	Q	R
(1)	grasshopper	frog	butterfly
(2)	butterfly	frog	grasshopper
(3)	butterfly	grasshopper	frog
(4)	frog	grasshopper	butterfly

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7. John carried out an experiment to test the magnetic strength at different points, A, B, C and D, of a bar magnet as shown below.

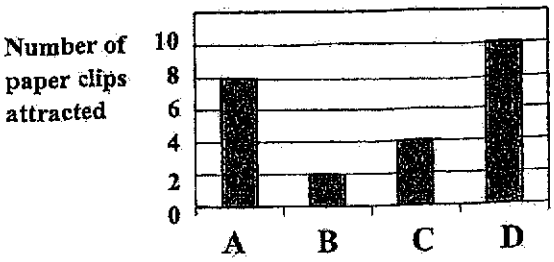
Bar Magnet



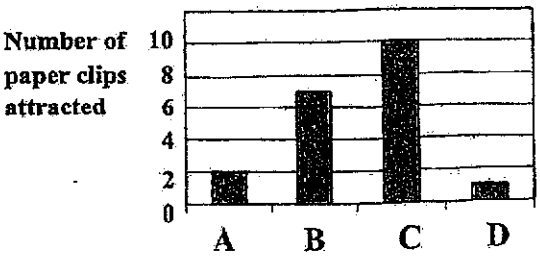
Some paper clips were brought near points, A, B, C and D, on the magnet and he recorded the number of paper clips attracted at each point.

Which of the following graphs best represents the number of paper clips attracted at each point?

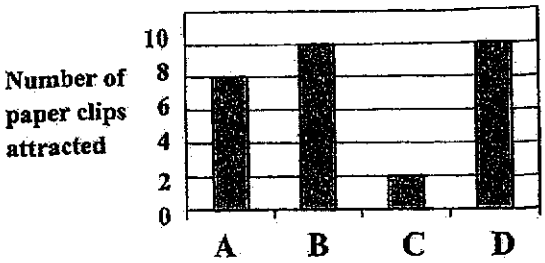
(1)



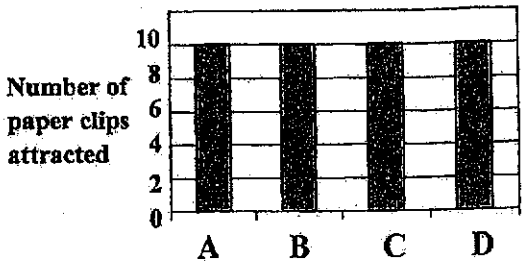
(2)



(3)

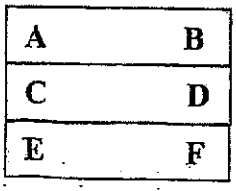


(4)



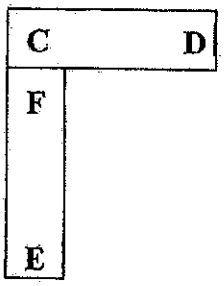
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8. Three bar magnets are arranged as shown below. Their ends are labelled with the letters A to F.

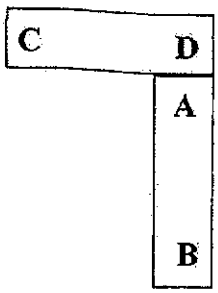


Which of the following shows a possible arrangement between two of the magnets?

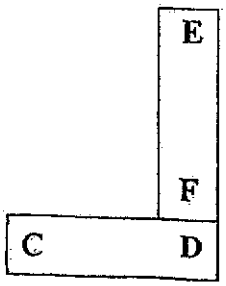
(1)



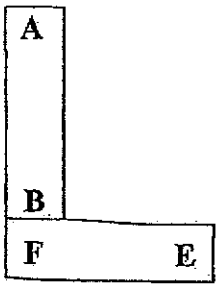
(2)



(3)



(4)

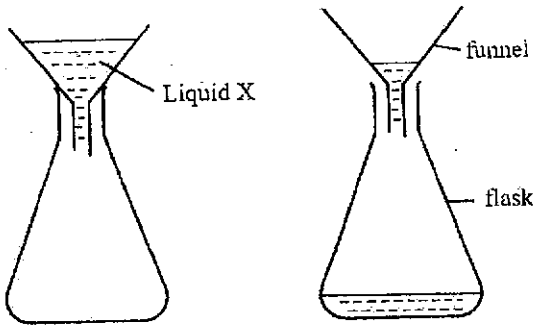


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Section B: (14 marks)

For questions 9 to 13, write your answers in this booklet.
The number of marks available is shown in brackets [ ] at the end of each question or part question.

9. Mandy has difficulty transferring liquid X into a flask using a funnel, as shown in set-up A.



Set-up A **Set-up B**

(a) Explain why the liquid was not able to enter the flask in set-up A. [1]

_____

_____

(b) Her mother suggests that she lifts the funnel up so that the liquid can flow into the flask easily, as shown in set-up B.

(i) What physical property of liquid X is observed in set-up B? [1]

_____

_____

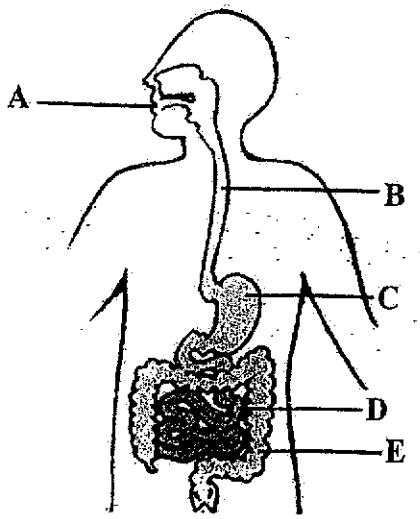
(ii) Explain why the liquid was able to enter the flask when the funnel was lifted. [1]

_____

_____

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10. The following diagram shows the human digestive system.



(a) Classify all the parts, A, B, C, D and E, under the correct headings below.

[2]

Parts where digestive juices are produced	Parts where no digestive juice is produced

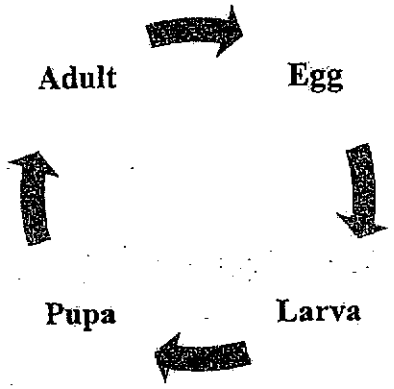
(b) State one difference between parts C and D in terms of their functions. [1]

_____

_____

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11. The diagram below shows the life cycle of a mosquito.

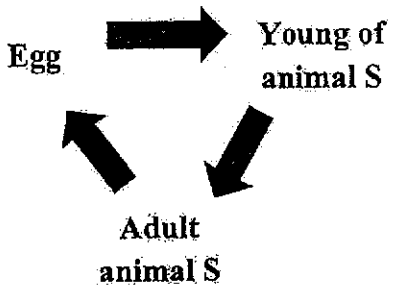


Life Cycle of a Mosquito

(a) At which stage(s) of the life cycle do the mosquitoes live in water? [1]

_____

The diagram below shows the life cycle of animal S.



Life cycle of animal S

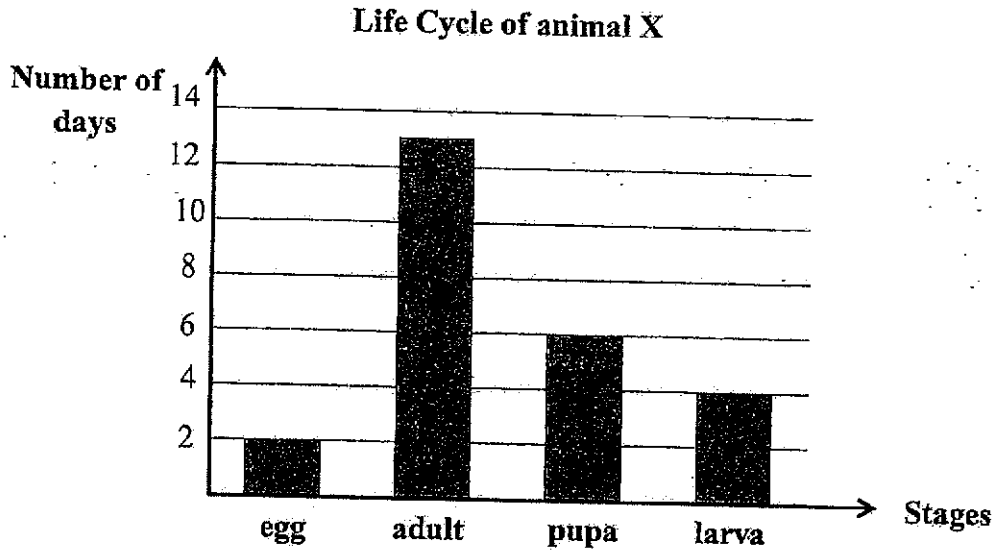
(b) Based on the two diagrams above, state a difference between the life cycle of animal S and the life cycle of a mosquito. [1]

_____

_____

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12. The graph below shows the number of days in each stage of the life cycle of animal X. The stages of the life cycle are not in the correct order.



(a) How many days will animal X take to become an adult after the egg has hatched? [1]

_____ days

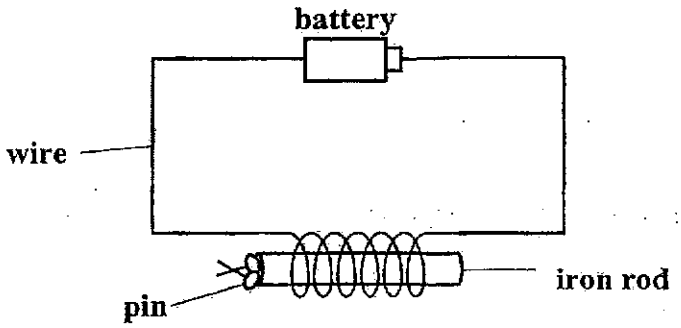
(b) Peter noticed that the number of larvae reduced as the number of days increased. What could have happened to the larvae? [1]

_____

_____

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13. Tom set up an experiment as shown below to find out if the number of turns of wire around an iron rod would affect the magnetic strength of the rod.



He coiled different number of turns of wire around the rod and recorded the number of pins attracted to the rod in the table below.

Number of turns of wire	Number of pins attracted
6	2
9	4
12	6
15	9

(a) What type of material must the pins be made of in this experiment? [1]

_____

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(b) What is/are the variable(s) to be kept the same for the experiment to be fair?
[1]

Tick (✓) the variable(s) to be kept the same in the table below:

Variable to be kept the same	**Tick (✓)**
Number of pins	
Number of batteries	
Number of turns of wire around the rod	
Type of rod	

(c) Based on the results in the table, what could Tom conclude about his experiment?
[1]

_____

_____

(d) What would Tom observe if he replaced the iron rod with a plastic rod?
[1]

_____

_____

END OF PAPER

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SCHOOL : RULANG SCHOOL
LEVEL : PRIMARY 4
SUBJECT : SCIENCE
TERM : 2024 WA1

Q1)	2
Q2)	2
Q3)	4
Q4)	4
Q5)	3
Q6)	1
Q7)	1
Q8)	3
Q9)	a) The funnel in set-up A was to close to the flask and the air was taking up the space in the funnel that's was liquid X was not able to go in. b) i)Liquid X takes up space. Liquid X has no fixed shape. ii)The air in the flask escaped into the surrounding and now the liquid was able to take up space previously occupied by the air.
Q10)	a)A,C,D B,E b)Digested food is absorbed into the blood stream in B but not in C.
Q11)	a) Larva , pupa and egg b) Animal S life cycle only has three stages but the life cycle of a mosquito has four stages.
Q12)	a)10 b)It could have died due to lack of water and food.
Q13)	a) Iron b) Number of batteries Type of rod c) The more you coil around the rod the number of pins increase. d) If he replaced the rod with a plastic he would observe that the pins would not attract to the plastic rod as plastic is not a conductor of metal.
Q18)	
Q19)	
Q20	

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