1.3

Nan Hua Primary School
Primary 4 Science
Term 2 Weighted Assessment 2023

Marks	
Section A:	/10
Section B:	/10
Total:	**/20**

Name: _____ ( )

Class: Primary 4S_____

Date: _____

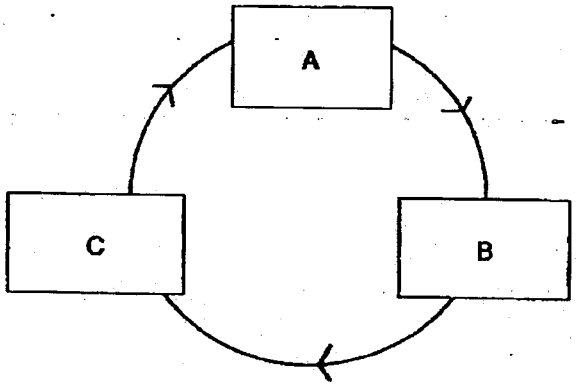
Duration: 30 minutes

_____
Parent's Signature

Answer all questions.

Section A: (5 x 2 marks = 10 marks)
For each question from 1 to 5, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and write your answer in the brackets provided.

1 The diagram below shows the life cycle of an insect which includes stages A, B and C.



Which one of the following represents stages A, B and C?

	A	B	C
(1)	Egg	Adult	Nymph
(2)	Adult	Egg	Nymph
(3)	Adult	Nymph	Egg
(4)	Nymph	Egg	Adult

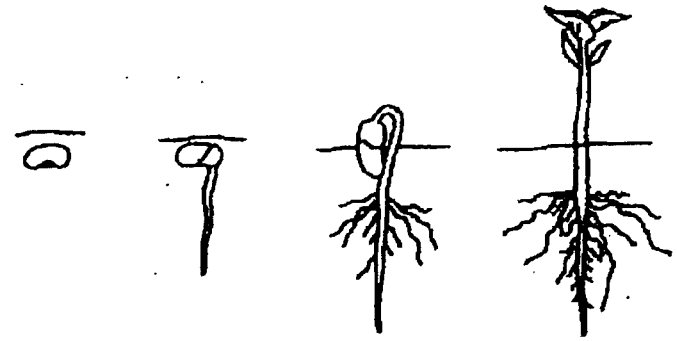
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2 The diagram below shows the growth of a plant.



A B C D

At which stage is the plant able to make food?

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

( )

3 The four statements below are made by four students about the pupa of an insect.

Amy:	It does not breathe at this stage.
Billy:	It moves around to look for food.
Collin:	It is developing into an adult.
David:	It does not feed on anything at the stage.

Which of the students are correct?

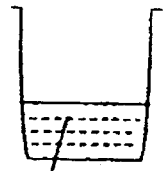
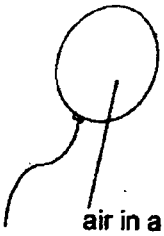
(1) Amy and Billy
(2) Amy and Collin
(3) Billy and Collin
(4) Collin and David

( )

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4 Which of the following is not a matter?

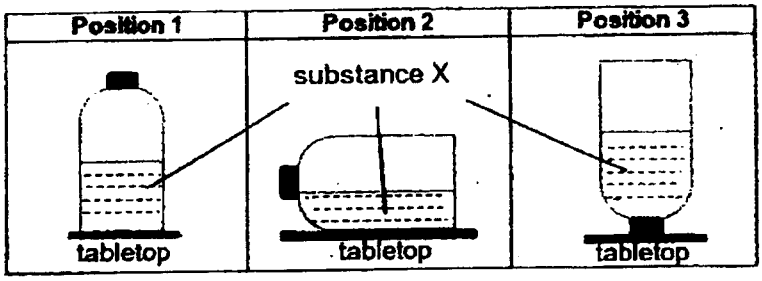
(1)	 water in a beaker	(2)	 air in a balloon
(3)	 shadow of a person	(4)	 petals of a flower

( )

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5 The diagram below shows a container with substance X placed in three different positions as shown below.



Based on the diagram, what can you conclude about substance X?

A: X occupies space

B: X can be compressed

C: X takes the shape of the container

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

( )

Total score for Section A	10

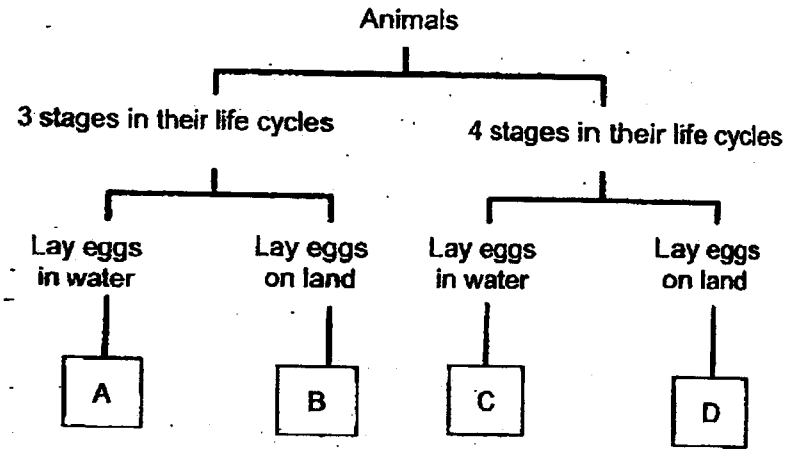
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Section B: Structured questions (10m)

For questions 6 to 8, write your answers in the space provided. The number of marks available is shown in brackets [ ] at the end of each question or part question.

6 Study the chart shown below.



(a) State one similarity between animals A and C. [1]

_____

_____

(b) State one difference between animals B and D. [1]

_____

_____

(c) Fill in the table below correctly with the letters A, B, C or D to represent the following animals. [1]

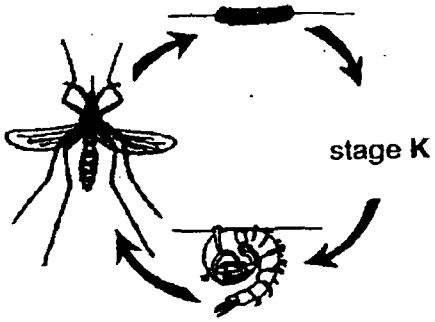
A beetle	A frog

Score 3

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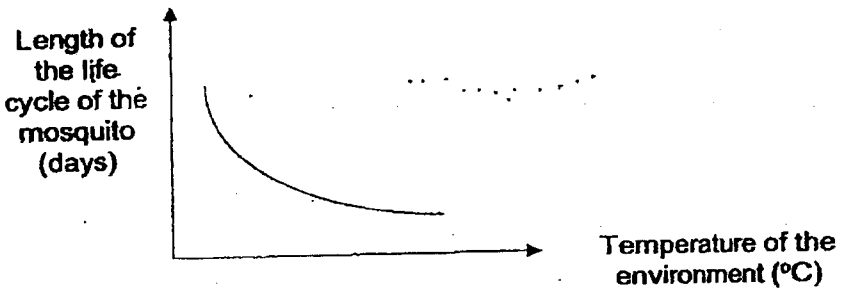
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7 Study the life cycle of a mosquito shown below.



(a) Identify stage **K**. [1]

Study the graph below.



(b) Based on the graph, what is the relationship between the temperature of the environment and the length of the life cycle of the mosquito? [1]

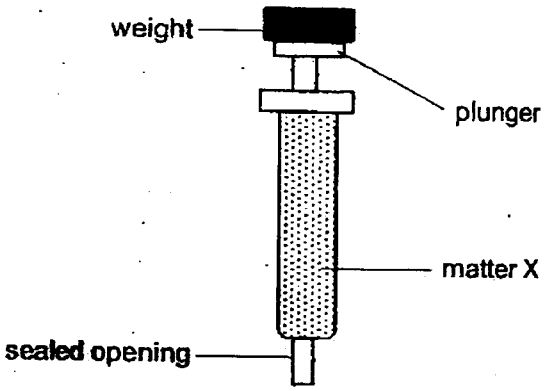
(c) Dengue fever is spread by mosquitoes. Based on the graph in part **(b)**, give a reason why the number of cases of dengue fever increases when the temperature of the environment increases. [1]

Score	3

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8 Jack sealed the opening of a syringe before filling the syringe completely with matter X. He then put weights on the plunger of the syringe.



He recorded the volume of matter X in the table below for every weight he added on the plunger.

Weight added (g)	Volume of matter X (cm^3)
0	100
1	90
2	82
3	75

(a) State two common properties of all matter. [2]

(b) Based on the table above, Jack concluded that matter X is a solid. Do you agree with Jack? Give a reason for your answer. [1]

(c) Based on the diagram above, give a reason why Jack needed to seal the opening of the syringe before conducting the experiment. [1]

End of Paper

Score

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SCHOOL : NAN HUA PRIMARY SCHOOL
LEVEL : PRIMARY 4
SUBJECT : SCIENCE
TERM : 2023 WA 2

CONTACT :

SECTION A

Q1	Q2	Q3	Q4	Q5
2	4	4	3	3

SECTION B

Q6)	a) Both A and C lay their eggs in water b) Animal B has 3 stages in their life cycle but D has 4 stages in their life cycle. c) Mealworm beetle: D Frog: A
Q7)	a) Larva b) When the temperature of the environment decreases, length of the life cycle of the mosquito increases. c) There will be more adult mosquitos, hence disease spreads at a faster rate
Q8)	a) Matter has mass and takes up space b) No. Solids cannot be compressed but matter X can be compressed. c) If Jack did not seal the opening, matter X can escape into the surrounding environment.

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