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

Name:	(}
Class: Primary 4S		•
Date:	•	
Duration: 30 minutes		

Marks	\$
Section A:	/10
Section B:	/10
Total:	/20

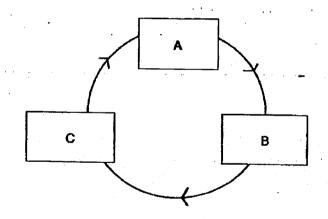
Parent's Signature

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?

•			
	ΑΑ	В	C
(1)	Egg	Adult	Nymph
(2)	Adult	Egg	Nymph
(3)	Adult	Nymph	Egg
(4)	Nymph	Egg	Adult

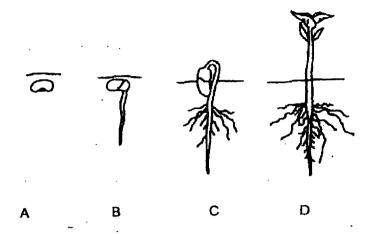
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This booklet consists of 7 printed pages.

The diagram below shows the growth of a plant. 2



At which stage is the plant able to make food?

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

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?

- Amy and Billy
- (1) (2) Amy and Collin
- Billy and Collin
- Collin and David

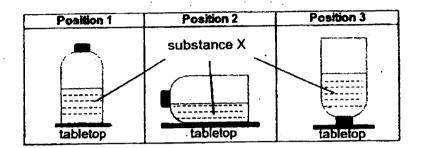
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4 Which of the following is not a matter?

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

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?

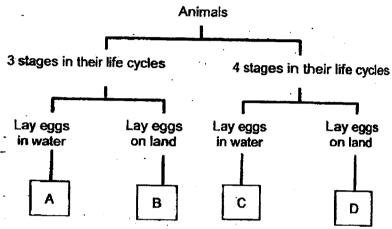
- A: X occupies space
- B: X can be compressed
- C: X takes the shape of the container
- (1) Bonly
- (2) A and B only
- (3) A and C only
- (4) A, B and C

Total score for Section A 10

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.

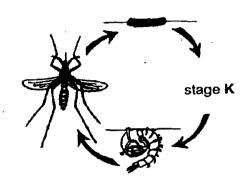


			
tate one diffe	erence between animals B	B and D.	

A beetle	A frog	<u> </u>

Score 3

7 Study the life cycle of a mosquito shown below.

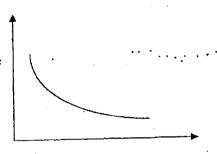


(a) Identify stage K.

[1]

Study the graph below.

Length of the life cycle of the mosquito (days)



Temperature of the environment (°C)

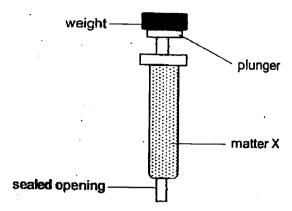
(b) Based on the graph, what is the relationship between the temperature of the environment and the length of the life cycle of the mosquito?

[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.

Score .

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 v Jack? Give a reason for your answer.	with [1]
٠.		
(c) ·	Based on the diagram above, give a reason why Jack needed to seal the opening the syringe before conducting the experiment.	g of [1]
	End of Paper	

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SCHOOL :

NAN HUA PRIMARY SCHOOL

LEVEL :

PRIMARY 4

SUBJECT:

SCIENCE

TERM

2023 WA 2

CONTACT:

SECTION A

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2	4	4	3	3

SECTION B

(A)	
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.