

MARIS STELLA HIGH SCHOOL (PRIMARY) SA2 EXAMINATION SCIENCE 3 NOVEMBER 2020

BOOKLET A

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NAME:		()	
CLASS:	Primary 3 ()		
	والمراوية			

24 questions

48 marks

Total Time for Booklets A & B: 1 h 30 min

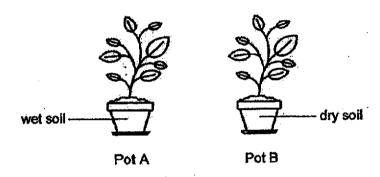
DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

For each question from 1 to 24, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet (OAS). (48 marks)

Nathaniel planted two identical plants in pots A and B. Pot A had wet soil and pot B had dry soil. Both pots were placed at the same location in the garden.





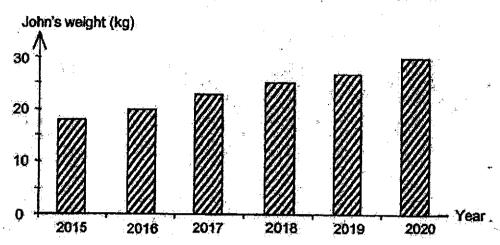
Two weeks later, Nathaniel noticed that the plant in pot A survived but the plant in pot B died.

Based on his observation, it shows that plants need ______ to survive.

- (1) air
- (2) soil
- (3) water
- (4) sunlight
- 2 What is the similarity between bacteria and fungi?.
 - (1) Both reproduce by seeds.
 - (2) Both are non-living things.
 - (3) Both cannot make their own food.
 - (4) Both can only be seen with a microscope.

1

3 The graph below shows the changes in John's weight over the years.



Which of the following characteristics of living things does the graph show?

- (1) Living things grow.
- (2) Living things reproduce.
- (3) Living things respond to changes.
- (4) Living things need air, food and water to survive.
- 4 The characteristics of two organisms, R and S, are shown below.

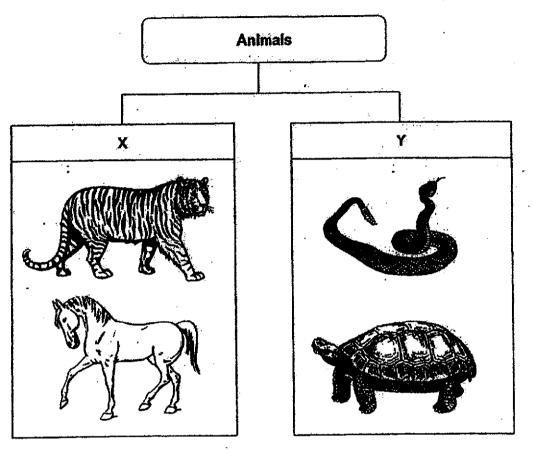
Characteristics	Organisms		
Oliai Botel 15065	R	s	
makes its own food			
reproduces by seeds	Y		

What could organisms R and S be?

, 1 -	R	S
(1)	fem	mushroom
(2)	mushroom	flowering plant
(3)	flowering plant	fem
(4)	flowering plant	mushroom

2

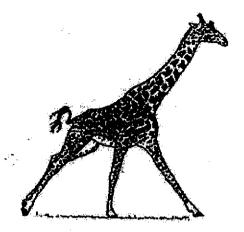
5 Study the classification table below.



Which of the following represents X and Y?

	X	Y
(1)	has fur	has moist skin
(2)	has hair	has scales
(3)	has feathers	has scales
(4)	has moist skin	has feathers

6 Danny wants to find out if an animal he saw is a mammal.



Which of the following characteristics will help Danny identify if the animal is a mammal?

- (1) It cannot fly.
- (2) It has four legs.
- (3) It gives birth to its young.
- (4) It does not have scales as outer covering.
- 7 Amy concluded that the animal shown below is an insect.

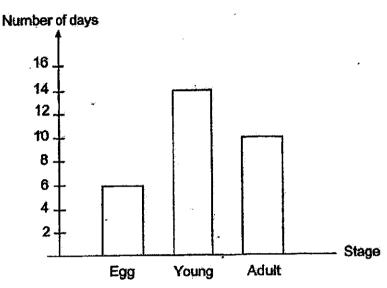


The animal is	an insect because it	

- (1) lays eggs
- (2) has wings
- (3) has eight legs
- (4) has three body parts

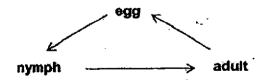
4

The graph below shows the number of days an animal remains in each stage of its life cycle.



Based only on the graph, which of the following statements is true about the life cycle of the animal?

- (1) There are four stages in its life cycle.
- (2) The animal spent fewer days as an adult than a young.
- (3) The animal takes 30 days to become an adult after the egg is laid.
- (4) After the egg is hatched, the animal takes another 20 days to become an adult.
- 9 The diagram below shows the life cycle of organism M.

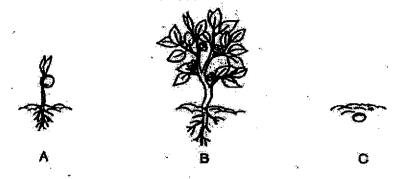


Which of the following represents organism M?

- (1) frog
- (2) chicken
- (3) butterfly
- (4) cockroach

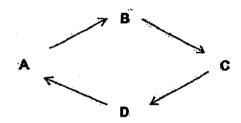
5

10 The diagram below shows the different stages of a plant.



Which of the following shows the correct order of stages of the plant?

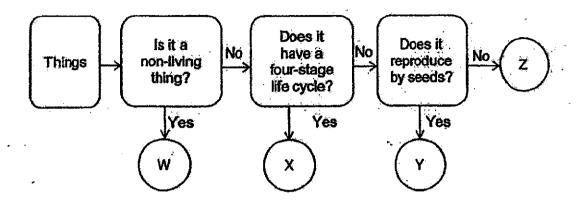
- (1) A→C→B
- (2) $B \rightarrow C \rightarrow A$
- (3) B → A → C
- (4) $C \rightarrow B \rightarrow A$
- 11 A, B, C and D represent different stages in the life cycle of a beetle.



If stage D represents the pupal stage, what stage does B represent?

- (1) egg
- (2) larva
- (3) adult
- (4) nymph

12 Study the flowchart below.



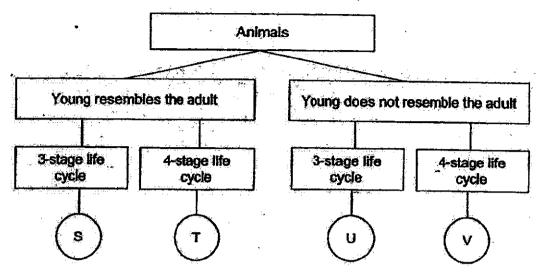
Which of the following represents plant M as shown below?



Plant M

- (1) W
- (2) X
- (3) Y
- (4) Z

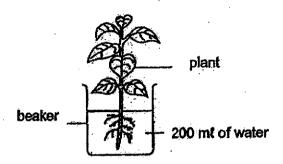
13 Study the classification chart below.



Which of the following best represents a chicken?

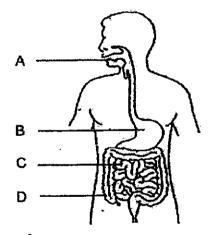
- (1) \$
- (2) T
- (3) U
- (4) V
- 14 Which of the following is the function of the stem of a plant?
 - (1) makes food
 - (2) absorbs water
 - (3) keeps the plant upright
 - (4) anchors the plant firmly to the ground

Zachary set up an experiment as shown below. The beaker contains 200 ml of water.



What is the likely amount of water in the beaker after 3 days?

- (1) 150 ml
- (2) 200 mt
- (3) 250 ml
- (4) 270 ml
- 16 A picture of the human digestive system is shown.



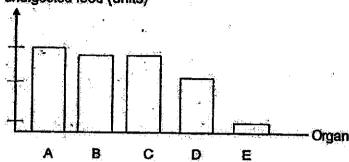
Which part is the large intestine?

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

9

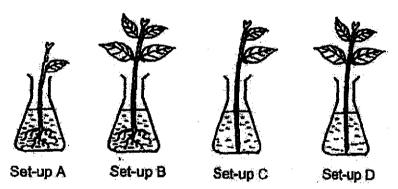
17 The graph below shows the amount of undigested food entering different parts of the digestive system. Organ A represents the mouth.

Amount of undigested food (units)



Which of the following statements is correct?

- (1) Organ B produces digestive juices,
- (2) Organ D digests more food than organ C.
- (3) No digestion takes place in organs A and B.
- (4) Organ E contains more undigested food than organ A.
- 16 Study the four set-ups below.



Which two set-ups should be used to find out if the presence of roots affect the growth of the plant?

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

10

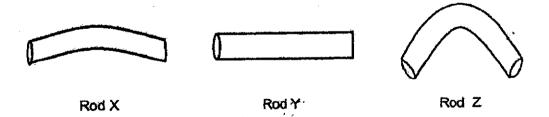
19 The following objects are classified into two groups, A and B.

Α `	В
eraser	table doth
plastic bag	cotton t-shirt
metal spoon	bath towel

In which of the following groups should a glass marble be classified?

[Group	Reason
(1)	A	It is stiff.
(2)	Α	It is waterproof.
(3)	8	It is flexible.
(4)	В	It can float on water.

Josh carried out an experiment using three different rods, X, Y and Z. The diagram below shows how rods X, Y and Z look like after they are bent using the same amount of strength.



Which of the following statements is correct?

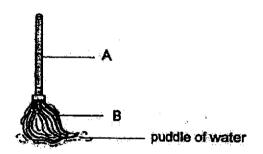
- (1) Rod Z is the stiffest.
- (2) Rod X is the strongest.
- (3) Rod X is less flexible than rod Z.
- (4) Rod Y is more flexible than rod Z.

21 The school uniform shown below is made of fabric.



Which of the following explains why fabric is suitable for making the school uniform?

- (1) It is stiff.
- (2) It is flexible,
- (3) It is waterproof.
- (4) It can sink in water.
- 22 The picture below shows a mop used for drying wet floor.



Which of the following correctly describes the properties of parts A and B?

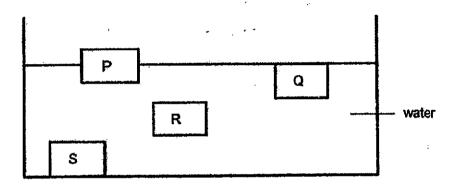
B orbent	
orbent	
erproof	
orbent	
waterproof	

12

An anchor as shown below is tied to a ship and used to prevent the ship from drifting due to wind or water current.



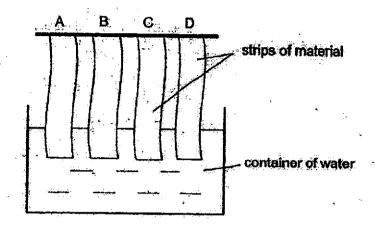
Four materials, P, Q, R and S, are placed in a container of water to test for their suitability to make an anchor. The results are shown below.



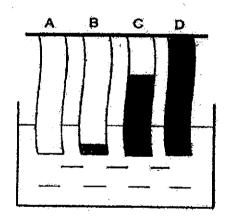
Which material is most suitable for making an anchor?

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

Natalle conducted an experiment to test the absorbency of materials. Materials A, B, C and D are dipped into a container of water as shown.



The diagram below shows what she observed after 5 minutes.



Based on her observation, which material is most suitable for making a raincoat?

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



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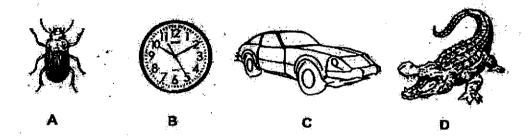
		BOOKLET B	er er
• 2			
NAME:		. () .	<i>;</i>
CLASS: P			
10 questions	<u>, , , , , , , , , , , , , , , , , , , </u>	<u> </u>	
32 marks			•
Total Time for Boo	klets A & B: 1 h 30 min		
DO NOT OPEN TH	IIS BOOKLET UNTIL YOU	ARE TOLD TO DO	SO.
FOLLOW ALL INS	TRUCTIONS CAREFULLY		•
•	,		
	Booklet A:		
	Booklet B:		3 2
	Grand Total:	1	an I

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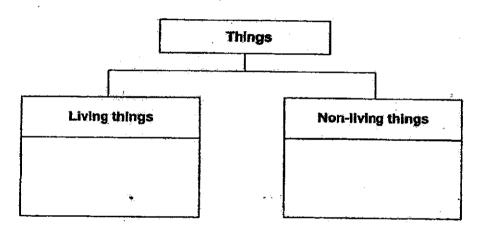
For questions 25 to 34, write your answers in this booklet. The number of marks available is shown in brackets [] at the end of each question or part question, (32 marks)

25 Study the four things given below.



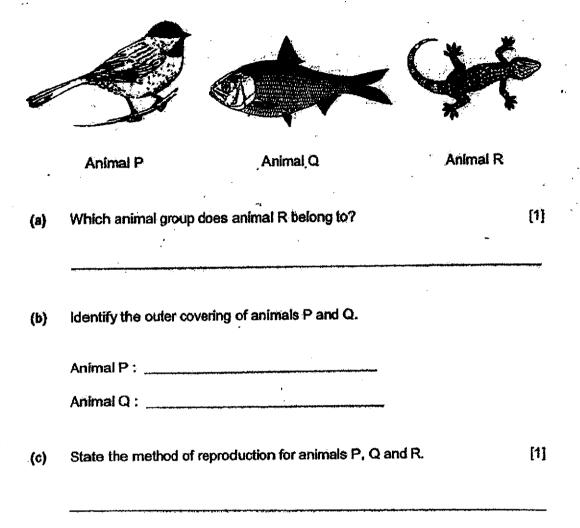
(a) Classify A, B, C and D in the classification chart below.

[2]

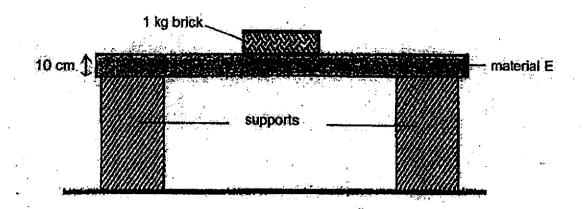


(b)	State one difference between living and non-living things.	_ [1].
		• •
	•	•

26 Study the three animals, P, Q and R, below.



27 Jeremy conducted an experiment as shown below.



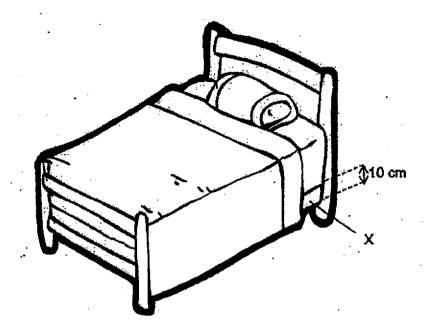
He stacked 1 kg bricks on material E, one at a time, until it broke. He then repeated the experiment with materials F and G. He recorded the results in the table below.

Material	Number of 1 kg bricks the sheet of material can support before breaking
E	9
F	70
G	20

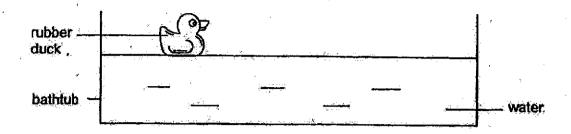
V	What property of material was Jeremy testing?	,	•	ı
.+-			-, }. \ - -	_
		•		
В	based on Jeremy's results, what is different bet	ween materials E an	d G?	
В	Based on Jeremy's results, what is different bet	ween materials E an	d G?	

		2
(Go on to	the next	page,

Jeremy wants to buy a bed frame that is safe for sleeping. He is 20 kg.



(c)	Based on the results of Jeremy's experiment, which material, E, For G, is				
	suitable for making part X of the bed? Explain why.	[2]			



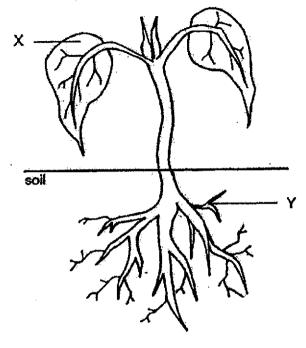
Cyril then tested the properties of materials A, B and C. He recorded his results in the table below.

	A	В	C
Does it absorb water?	Yes	No	Yes
Does It float?	No	Yes	Yes

List	the properties of material A,	
	ch material, A, B or C, is most suitable to make the rubber duck? lain your answer.	1

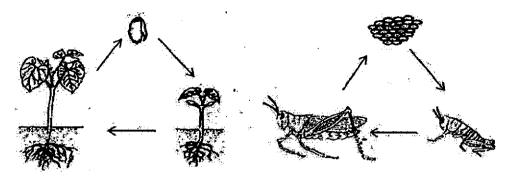
Whe	en Cyrll squeezes the rubber duck, it makes a 'quack' sound.	
Wha	at property of the material allows him to squeeze the rubber duck?	ľ

29 The diagram below shows a plant.



)	Name plant part X.	[1]
	·	
)	Tick (✓) the function(s) of part Y.	[1]
	takes in water	
	keeps the plant upright	
	anchors the plant to the ground	• :

30 Study the life cycles of plant G and animal H.



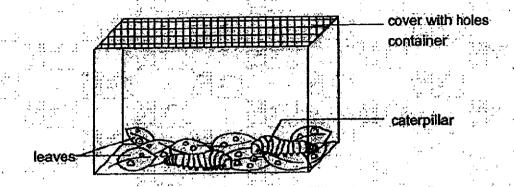
Life cycle of plant G

Life cycle of animal H

Š	State two similarities between the life cycle	s of plant (G and anima	H.	
ş	Similarity 1:	e garangan			
-		Markey per ratio and a second way of the second	and the state of t		·
Ş	Similarity 2:			, , , , , , , , , , , , , , , , , , ,	<u>.</u>
-	Takan katan sa manan	and the second of the second 			****
	State two characteristics of living things	that can b	e observed	from the	ì
	cycles shown above.		•		j
1		·····			
-	2.				

			4	
(Go oi	1 to th	e ne	xt pa	ge)

Devi wanted to observe how caterpillars grow. She placed two caterpillars in a container that is filled with many leaves.

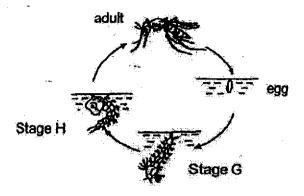


(a) Why is it important for the cover of the container to have holes? [1]

After two weeks, Devi observed that the caterpillars had grown and looked different.

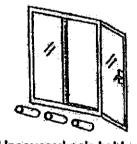
- (b) After the caterpillars changed to the next stage of their life cycle, will the number of leaves in the container increase, decrease or remain the same? [1]
- (c) Explain your answer in (b). [1]

32 The diagram shows the life cycle of a mosquito. Other than the adult stage, the other three stages of mosquito are found in water.

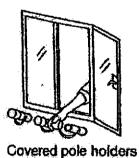


(a)	Name stages G and H,					
	Stage G :	and the survey of the state of	· · · · · · · · · · · · · · · · · · ·			
	Stage H:	Okai Sidda kara muka ya maka yi kulika	dani a sagaina da da			

(b) Dengue fever is a disease spread by infected Aedes mosquitoes. One method to prevent the spread of dengue is by covering bamboo pole holders found outside the windows of flats. Uncovered pole holders may collect water when it rains heavily.

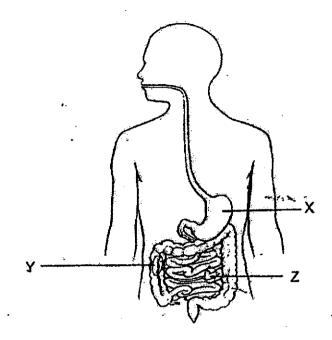


Uncovered pole holders



How does dengue?	covering	the	bamboo	pole	holders	heip	prevent	the	spread of
				.•					***
				Charles View					
			,			·			
*************					-	i wananan	of an own pipe aroun		

33 The diagram below shows the human digestive system.



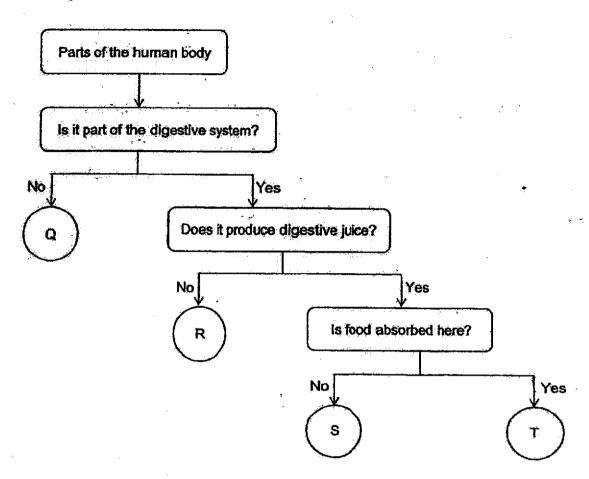
Read the statements carefully. Put a tick (</) in the appropriate boxes.

	Statements	True	False
(a)	Both X and Y contain digestive juices to digest food.		
(b)	Z is where water from undigested food is absorbed.		

(Go on to the next page)

[2]

34 Study the flowchart below.



(a) Match the body parts to letters Q, R, S and T above.

[2]

Body part	Letter
gullet	
small intestine	

b)	State a difference between parts Q and S.	[1]
	Company of the second s	·
(c)	State a similarity between parts S and T.	[1]
		· · · · · · · · · · · · · · · · · · ·

End of Booklet B

2

ANSWER KEY

YEAR: 2020

LEVEL: PRIMARY 3

SCHOOL: MARIS STELLA HIGH SCHOOL

SUBJECT: SCIENCE

TERM: SA2

BOOKLET A

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

BOOKLET B

Q25	a) A and D are living things while C and B are non-living
Q20	things.
	b) Living things can respond to changes around them
	while non-living things are not bale to respond to changes
	around them.
Q26	a) Reptile
_	b) Animal P: Feathers
	Animal Q: Scales
	c) All three reproduce by laying eggs.
Q27	a) He is testing how strong the materials are.
	b) Material E can hold lesser number of 1kg bricks than
	material G.
	c) F is the most suitable. It can withstand the most weight
	before breaking.
Q28	a) Material A is absorbent and it do not float on water.
	b) B is the most suitable. It does not absorb water and it
	floats on water.
	c) Flexibility
Q29	a) Leaves
	b) Part Y takes in water and anchors the plant to the
	ground.

Q30	a) Both young resembles its adult. Both have a 3 stage life cycles.
	b) Living things can grow and reproduce.
Q31	a) So that the caterpillars will have air.
	b) It will remain the same.
	c) The next stage do not eat food.
Q32	a)
	Stage G: Larva
	Stage H: Pupa
	b) Adult mosquito would not have a place to lay their eggs.
Q33	a) False
	b) False
Q34	a)
	Gullet: R
	Small intestine: T
	b)Part Q is not part of the digestive system but part S is
	part of the digestive system.
	c) Both produce digestive juices.