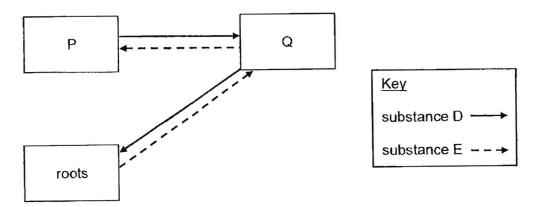
Catholic High School (Primary) Primary 5 Science 2024 Weighted Assessment 3

Name:	_()	MARKS 30
Class: Pri. 5			W/ witte
Date: 1 August 2024		Parent's Signat	ture:
Booklet A (10 × 2 marks) For each question from 1 to 10, fou answer. Make your choice (1, 2, 3 provided.	r opti or 4)	ions are given. O). Write its correct	ne of them is the correct t number in the brackets (20 marks)

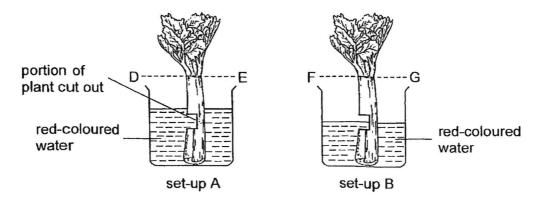
1 Study the diagram.



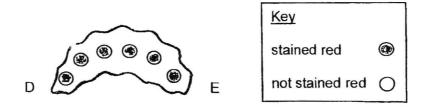
Which of the following correctly identifies parts P and Q and substances D and E?

	Р	Q	D	E		
(1)	leaves	stem	water	food		
(2)	leaves	stem	food	water		
(3)	stem	leaves	water	food		
(4)	stem	leaves	food	water]()

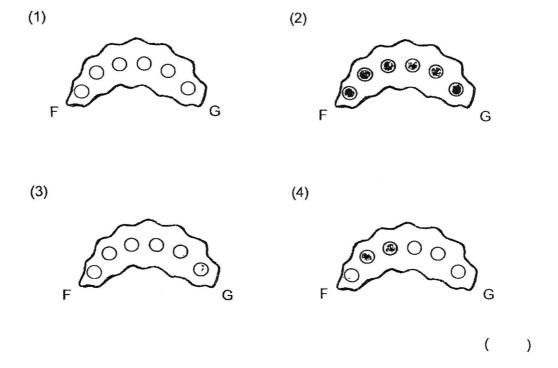
Two similar stalks of a plant, each with a portion cut out, were lowered into two separate beakers with red-coloured water as shown.



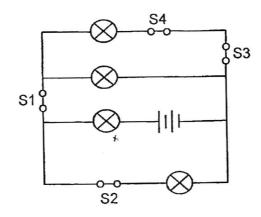
After several hours, the two stalks were cut at DE and FG respectively. The diagram shows the parts stained red in the cut at DE.



Which diagram would be observed in the cut at FG?



3 Study the circuit.



All the bulbs were lit when all the four switches were closed. Which switch should be opened for the least number of bulbs to light up?

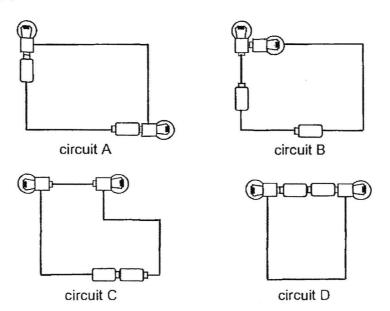
- (1) S1
- (2) S2
- (3) S3
- (4) S4

(

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- 4 Which actions help to conserve electricity?
 - A Use energy-saving light bulbs
 - B Use the water heater only when needed
 - C Leave the air-conditioner turned on the entire day
 - D Switch off the electrical appliances when not in use
 - (1) A and D only
 - (2) B and C only
 - (3) A, C and D only
 - (4) A, B and D only (

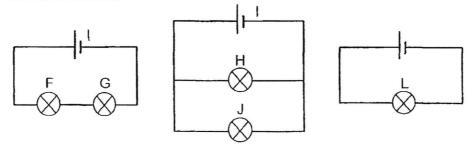
Vicknesh set up four circuits using identical batteries and bulbs in working condition.



In which circuit(s) will the bulbs light up?

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

6 Identical batteries and bulbs in working condition are used to set up the three circuits.



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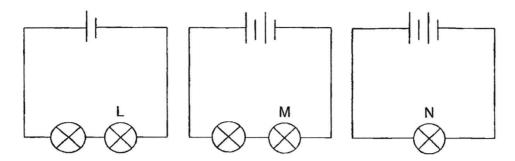
)

)

Which bulbs will most likely light up with the same brightness?

- (1) H and L only
- (2) F, G and L only
- (3) H, J and L only
- (4) F, G, H and J only

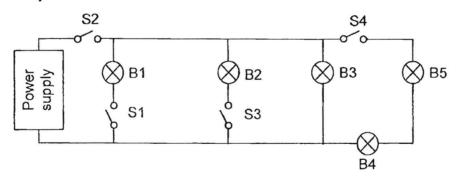
7 Identical batteries and bulbs in working condition are used to set up the three circuits.



Arrange the bulbs from the brightest to the dimmest.

	Brightest bulb -		→ Dimmest bulb
(1)	L	М	N
(2)	L	N	M
(3)	N	M	L
(4)	N	L	М

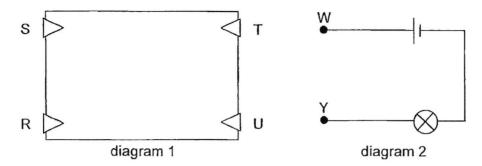
8 Study the circuit.



Which of the following is correct?

	Switch(es) open	Switch(es) closed	Bulb(s) that will light up
(1)	S1-and S3	S2 and S4	B4 and B5
(2)	S4	S1, S2 and S3	B1, B2, B4 and B5.
(3)	S2 and S1	S3 and S4	B2, B3, B4 and B5
(4)	S3	S1, S2 and S4	B1, B3, B4 and B5

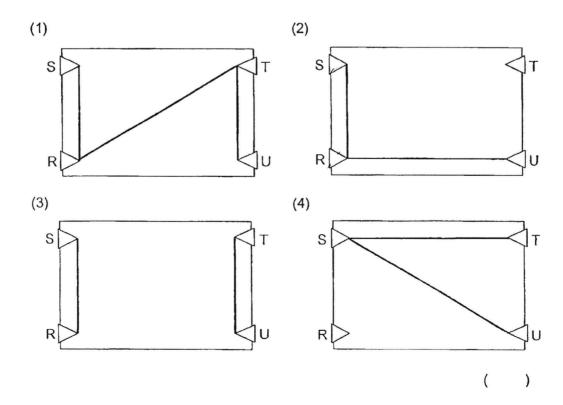
Four identical paper clips, R, S, T and U, were fixed onto a cardboard as shown in diagram 1. Diagram 2 shows a battery and a bulb connected to two wires W and Y.



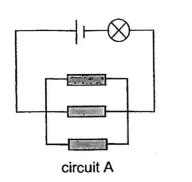
Hafiz connected some of the paper clips on the cardboard in diagram 1 with wires. He then connected W and Y across different pairs of paper clips. His results are as shown.

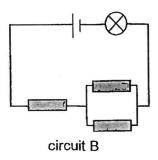
Clip connected to W	Clip connected to Y	Did the bulb light up?
R	S	yes
U	Т	no
S	U	yes

Based on the information, which of the following correctly shows the connections?



10 Each of the circuits has an iron rod, a wooden rod and a plastic rod.





In which of the circuits will the bulb light up?

- (1) A only
- (2) B only
- (3) Both A and B
- (4) None of the circuits

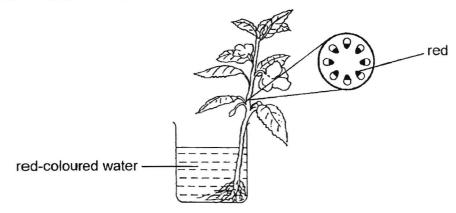
Booklet B (10 marks)

For questions 11 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.

(10 marks)

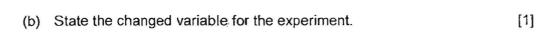
11 Jia En left a plant with white flowers standing in a beaker of red-coloured water for one hour. After one hour, she cut a section of the stem and observed that there were red dots as shown.



(a)	Name the part of the stem that was stained red and state its function.	[1]

Jia En prepared two set-ups for an experiment as shown.

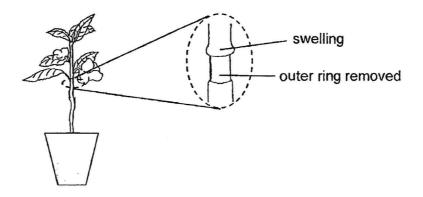




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SCORE
2

Continue from Question 11

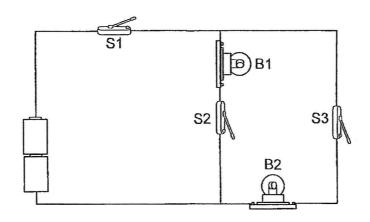
Jia En removed the outer ring from the stem of another plant in a pot. The food-carrying tubes were removed while the water-carrying tubes remained in the stem.



(c)	Explain why removing the outer ring of the stem caused swelling above the cut section.	[1]
(d)	Jia En observed that the plant died even though she watered the plant daily. Give a reason.	[1]

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SCORE 2

12 Study the circuit. All the electrical components are in working condition.



(a) Complete the table by filling in the four blanks.

[2]

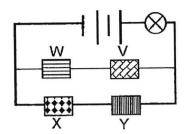
Were the switches open or closed?		Did the bulb light up?		
S1	S2	S 3	B1	B2
(i)	closed	(ii)	yes	yes
closed	(iii)	(iv)	yes	no

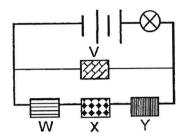
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SCORE 2

Continue from Question 12

Two circuits using identical batteries and bulbs are set up as shown. Materials V, W, X and Y are either electrical conductors or electrical insulators.





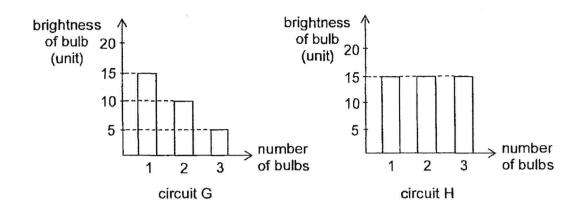
circuit 1: bulb lights up

circuit 2: bulb does not light up

(b)	Based on the information, which two materials are electrical insulators? Explain why the bulb does not light up in circuit 2.	

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SCORE 2

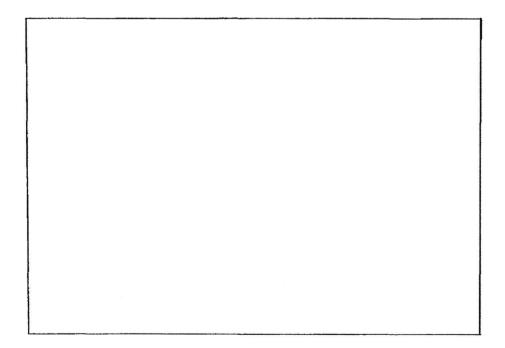
13 The graphs show the relationship between the number of bulbs and the brightness of the bulbs in circuits G and H. Identical bulbs and batteries used are in working condition.



(a) Based on the information, state the arrangement of the bulbs-in each circuit.

circuit H:

(b) Complete the circuit diagram of circuit H with three bulbs in the box. The batteries have been drawn for you.



End of Paper

[1]

[1]

SCHOOL: CATGOLIC HIGH SCHOOL

LEVEL : PRIMARY 5 SUBJECT : SCIENCE TERM : 2024 WA3

CONTACT: CALL MR GAN @ 9299 8971,

Q1)	2
Q2)	3
Q3)	1
Q4)	4
Q5)	4
Q6)	3
Q7)	3
Q8)	4
Q9)	2
Q10)	1

Primary 5 Science 2024 Weighted Assessment 3

Name:	_()	Class: Pr 5 -

Booklet B (10 marks)

Qn	Correct / Acceptable Answer	Remarks
11	Concept(s)/Skill(s) assessed: Identify the parts of the plant transport system and describe the Investigate the functions of plant parts and communicate finding	
а	water-carrying tubes.	Study the definition given in
	Thewater-carrying tubes transport	TB page 4.
	water and mineral salts	
	from the <u>roots</u> to <u>all</u> parts of the plant.	
b	Thickness of the stem	Changed variable can only be one in an experimental set-up.
		Size, length is not the same as thickness.
		Size → big or small
		Be specific!
С	The <u>food</u> , made in the leaves was	S frie
	accumulated cut	
	food could not be transported to the parts below	
	the cut / to the roots.	
Caus Outer remo (men	r ring ved tubes removed removed in leaves accumulated trans	made aves I not be ported withe
		ection (mentioned)
đ	Thecould not absorb water for the plant to photosynthesise.	Must state the function of the roots. Do not repeat what you wrote in Part C.

12	Concept(s)/Skill(s) assessed: Show an understanding that a current can only flow in a closed circuit. Identify electrical conductors and insulators.	
а	(i) closed (ii) closed (iii) closed (iv) open	
b	C: Materials andV E: The circuit is so R: electric current cannot flow through the circuit.	Had mentioned many times in class! Open circuit → electric current cannot flow through Closed circuit → electric current can flow through
13	Concept(s)/Skill(s) assessed: Investigate the effect of the current on circuit arrangement (se Construct simple circuits from circuit diagrams.	ries & parallel).
а	circuit A: circuit B:	'arrangement' means whether it is a series or parallel arrangement
b		series circuit / extra path will lead to short circuit Standard exam marking system: -additional components / obvious wires sticking out / wires cross bulb (minus ½m) -gaps of 0.1cm or more (0m)