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

Name:		(	)		/
Class: Pri. 5	. 44			MARKS 3	30
Date: 1 Aug	ust 2024		Parent's Signa	ture:	
For each qu	10 × 2 marks) lestion from 1 to ke your choice	o 10, four option (1, 2, 3 or 4).	ns are given. O Write its correc	ne of them is the corn t number in the brack	ec ets
	<u> </u>	<u> </u>		(20 marl	(s)
1 Study	the diagram.				
<u> </u>	roots of the following	correctly identifie	Q es parts P and Q	Key substance D → substance E →	
	Р	Q			
(1)	leaves	stem	D water	E food	
(2)	leaves	stem	food	water	
(3)	stem	leaves	water	food	

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(4)

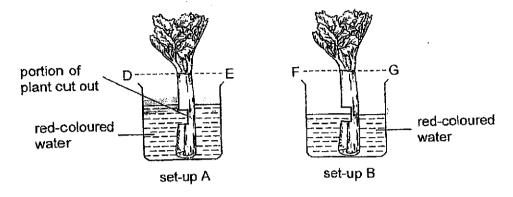
stem

leaves

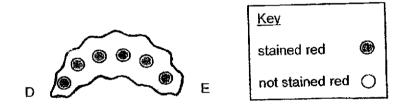
food

water

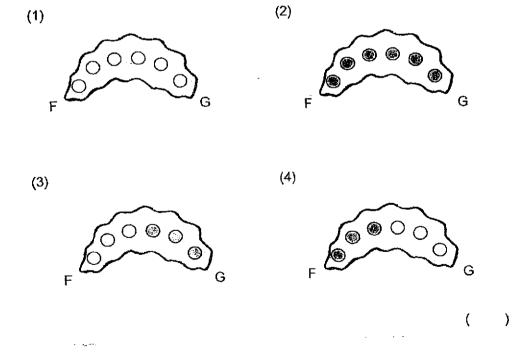
2 Two similar stalks of a plant, each with a portion cut out, were lowered into two separate beakers with red-coloured water as shown.



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.

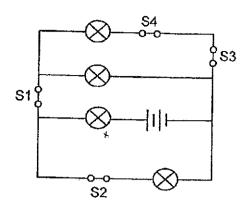


Which diagram would be observed in the cut at FG?



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3 Study the circuit.



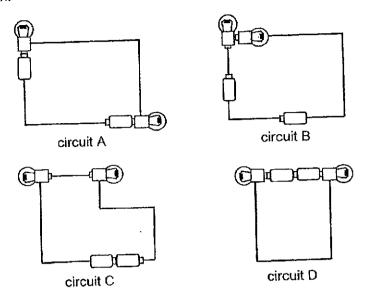
All the bulbs were lit when all the four switches were closed. Which switch should be opened for the least number of bulbs to light up?

- (1) S1
- (2) S2-
- (3) \$3
- (4) S4
- 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

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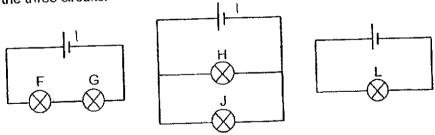
Vicknesh set up four circuits using identical batteries and bulbs in working condition.



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

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

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



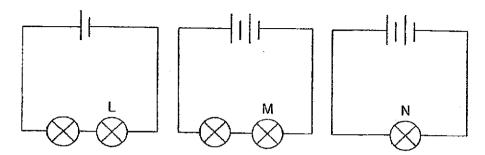
Which bulbs will most likely light up with the same brightness?

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

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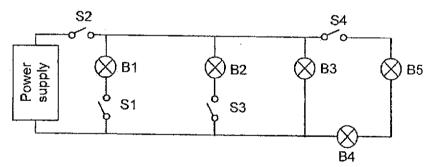
7 Identical batteries and bulbs in working condition are used to set up the three circuits.



Arrange the bulbs from the brightest to the dimmest.

Brightest	bulb		→ Dimmest b
L		M	N
L		N	M
N		М	L.
N		L.	M

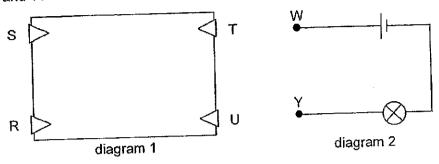
8 Study the circuit.



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	
I)	S3	\$1, \$2 and \$4	B1, B3, B4 and B5	

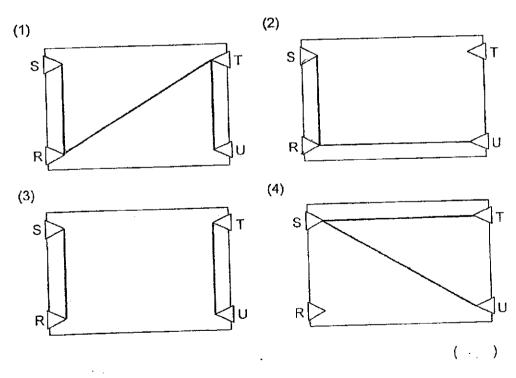
9 Four identical paper clips, R, S, T and U, were fixed onto a cardboard as shown in diagram 1. Diagram 2 shows a battery and a bulb connected to two wires W and Y.



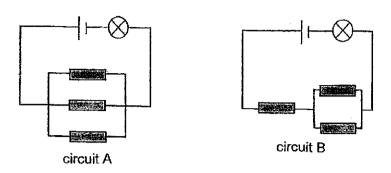
Hafiz connected some of the paper clips on the cardboard in diagram 1 with wires. He then connected W and Y across different pairs of paper clips. His results are as shown.

Clip connected to W	Clip connected to Y	Did the bulb light up?
R	S	yes
	T	no
<u>-</u>	U	yes
		1

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

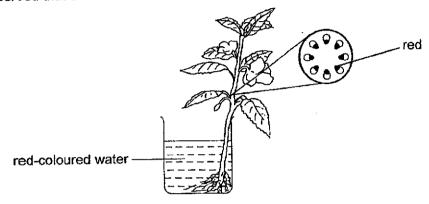
### Booklet B (10 marks)

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.



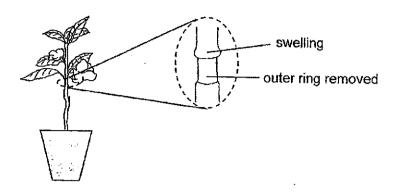


(b) State the changed variable for the experiment. [1]

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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.

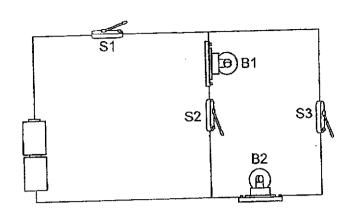


(c)	Explain why removing the outer ring of the stem caused swelling above the cut section.		
(d)	Jia En observed that the plant died even though she watered the plant daily. Give a reason.	[1]	

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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.

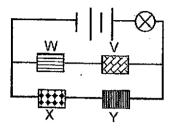
[2]

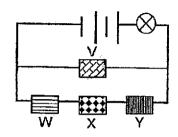
Were the switches open or closed?		Did the bulb light up?		
<b>S1</b>	S2	S3	В1	B2
(i)	closed	(ii)	yes	yes
closed	(iii)	(iv)	yes	no

(Go on to the next page)
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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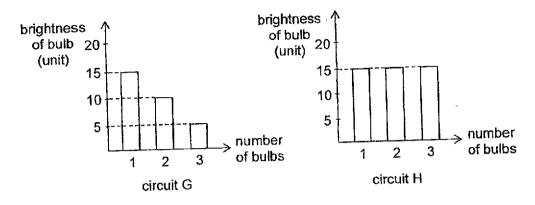
SCORE

2

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11

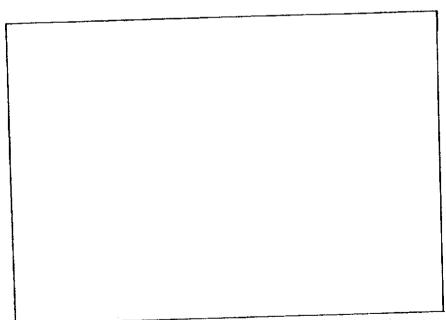
13 The graphs show the relationship between the number of bulbs and the brightness of the bulbs in circuits G and H. Identical bulbs and batteries used are in working condition.



(a)	Based on the information, state the arrangement of the bulbs in each circuit.	[1]
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circuit H:

(b)	Complete the circuit diagram of circuit H with three bulbs in the box. The batteries have been drawn for you.	[1]
	The batteries have been drawn to year	



End of Paper

SCORE 2

SCHOOL: CATGOLIC HIGH SCHOOL

LEVEL : PRIMARY 5 SUBJECT : SCIENCE TERM : 2024 WA3

2
3
1
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4
3
3
4
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1

## Primary 5 Science 2024 Weighted Assessment 3

Name:(	)	Class: Pr 5
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Qn	klet B (10 marks)  Correct / Acceptable Answer	Remarks
11	Concept(s)/Skill(s) assessed: Identify the parts of the plant transport system and describe their functions. Investigate the functions of plant parts and communicate findings.	
İ	water-carrying tubes.  The water-carrying tubes transport tubes transport and mineral salts to all parts of the plant.	Study the definition given in TB page 4.
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!
c	Thefood, made in the leaves was at the as food could not be transported to the parts	3'ffic
	below the cut / to the roots.	
Ou	ter ring tubes accumulated.	Food made in leaves could not be transported below the cut section  Effect  Swelling above the cut section (mentioned)
d	The could not absorb water for the plant to photosynthesise.	Must state the function of the roots. Do not repeat what you wrote in Part C.

Sc/P5/WA3/ Page 1 of 2

12 Concept(s)/Skill(s) assessed:	
Show an understanding that a current can only flow in a clos	
Identify electrical conductors and insulators.	ed circuit.
a (i) closed (ii) closed (iii) closed (iv) open	
b	
C: Materials W and V	Had mentioned many times in class!
E: The circuit is open so	Open circuit → electric current
R: electric current cannot	cannot flow through
flow through the circuit.	Closed circuit → electric current can flow through
13 Congont(s)(CLIII(s)	
Investigate the effect of the current on circuit arrangement (see	eries & narellall
- Circuit diagrams.	noo a paranery.
circuit A: series  circuit B: parallel	'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)

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