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

Name:		(	)	
Class: Pri. 5	) 4a			MARKS 30
Date: 1 Aug	ust 2024		Parent's Signa	ture:
For each qu	10 × 2 marks) Lestion from 1 to ke your choice	0 10, four optio (1, 2, 3 or 4).	ns are given. O Write its correc	ine of them is the correct t number in the bracket
		<u> </u>		(20 marks
1 Study	the diagram.			
	P	The state of the s	Q	Key substance D → substance E→
Which D and	of the following	correctly identifi	es parts P and G	and substances
	P	Q	D	E
(1)	leaves	stem	water	food
(2)	leaves	stem	food	water
(3)	stem	leaves	water	food

(4)

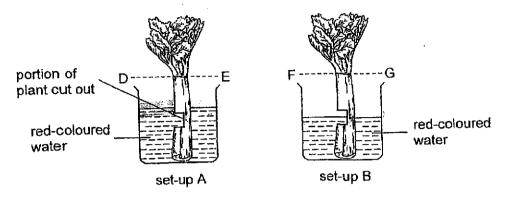
stem

leaves

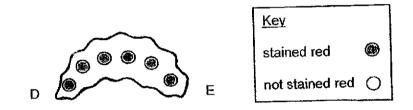
food

water

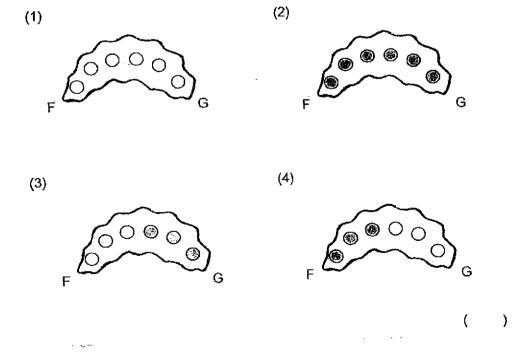
2 Two similar stalks of a plant, each with a portion cut out, were lowered into two separate beakers with red-coloured water as shown.



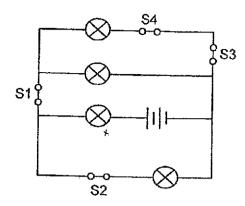
After several hours, the two stalks were cut at DE and FG respectively. The diagram shows the parts stained red in the cut at DE.



Which diagram would be observed in the cut at FG?



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?

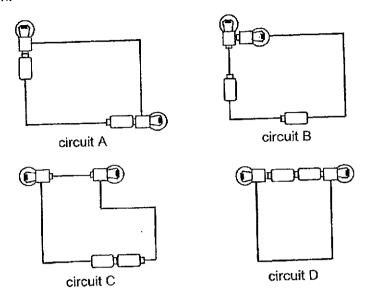
- A Use energy-saving light bulbs
- B Use the water heater only when needed
- C Leave the air-conditioner turned on the entire day
- D Switch off the electrical appliances when not in use
- (1) A and D only
- (2) B and C only
- (3) A, C and D only
- (4) A, B and D only

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(

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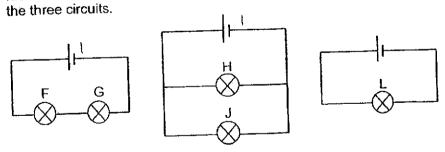
Vicknesh set up four circuits using identical batteries and bulbs in working condition.



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



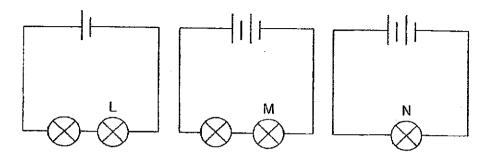
Which bulbs will most likely light up with the same brightness?

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

)

)

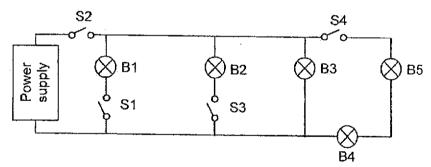
7 Identical batteries and bulbs in working condition are used to set up the three circuits.



Arrange the bulbs from the brightest to the dimmest.

Brightest bull	9	→ Dimmest bulk
L	M	N
L	N	M
N	M	L
N	L	М

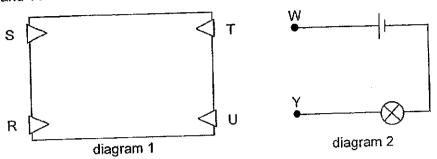
8 Study the circuit.



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

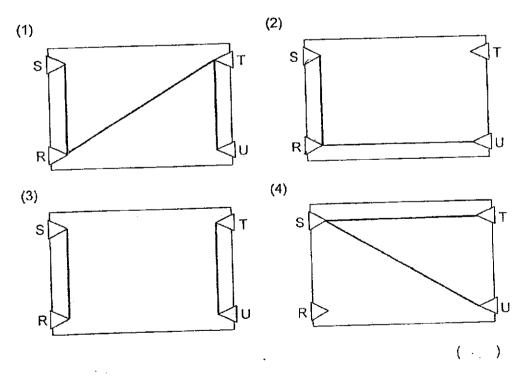
9 Four identical paper clips, R, S, T and U, were fixed onto a cardboard as shown in diagram 1. Diagram 2 shows a battery and a bulb connected to two wires W and Y.



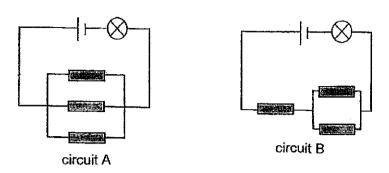
Hafiz connected some of the paper clips on the cardboard in diagram 1 with wires. He then connected W and Y across different pairs of paper clips. His results are as shown.

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

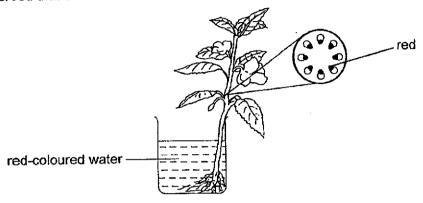
### Booklet B (10 marks)

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)

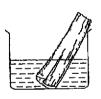
11 Jia En left a plant with white flowers standing in a beaker of red-coloured water for one hour. After one hour, she cut a section of the stem and observed that there were red dots as shown.



(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.



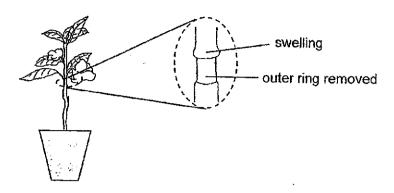


(b)	State the changed variable for the experiment.	[1]
(b)	State the changed variable for the experiment.	[1

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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.

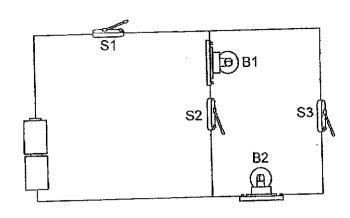


(c)	Explain why removing the outer ring of the stem caused swelling above the cut section.	[1
(d)	Jia En observed that the plant died even though she watered the plant daily. Give a reason.	<b>[1</b> ]

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SCORE 2

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



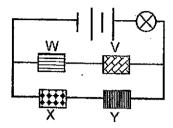
(a) Complete the table by filling in the four blanks.

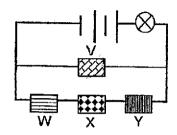
[2]

Were the switches open or closed?		Did the bull	b light up?	
<b>S1</b>	S2	S3	B1	B2
(i)	closed	(ii)	yes	yes
closed	(iii)	(iv)	yes	no

#### 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.





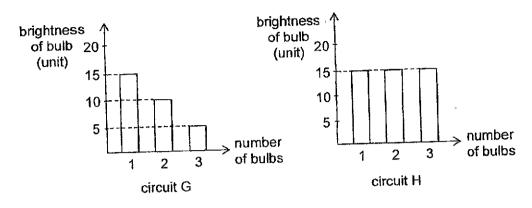
circuit 1: bulb lights up

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.	[2]

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SCORE 2

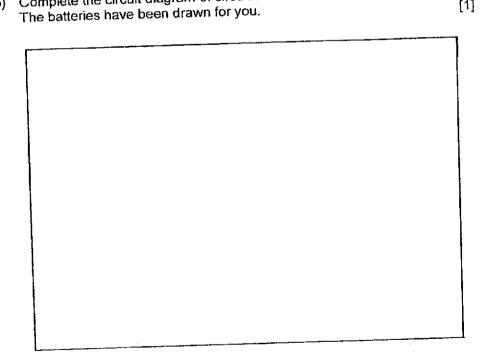
The graphs show the relationship between the number of bulbs and the brightness of the bulbs in circuits G and H. Identical bulbs and batteries used are in working condition.



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

circuit G: circuit H:

Complete the circuit diagram of circuit H with three bulbs in the box.



**End of Paper** 

[1]

SCHOOL: CATGOLIC HIGH SCHOOL

LEVEL : PRIMARY 5 SUBJECT : SCIENCE TERM : 2024 WA3

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

	klet B (10 marks)	Remarks	
Qn	Correct / Acceptable Answer		
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	eir functions. ngs.	
l	water-carrying tubes.	Study the definition given in	
	The tubes transport	TB page 4.	
	water and mineral salts		
	from the <u>roots</u> to all parts of the plant.		
	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!	
		अंग्रेट	
	The food made in the leaves was		
	accumulated at the cut as		
	food could not be transported to the parts		
	below the cut / to the roots.		
		od made Effect	
<u>Ca</u>	use Food- Food made in leaves in l	eaves Swelling	
ren	ter ring tubes accumulated.	above the	
	entioned) removed cut section be	low the (mentioned)	
L	(mentioned) cut	section	
		Must state the function of the	
d	The could not absorb water for the plant	roots. Do not repeat what you wrote in Part C.	
	to photosynthesise.		

12	Concept(s)/Skill(s) assessed:	
	Show an understanding that a current can only flow in a stand it.	
	Identify electrical conductors and insulators.	iosea circuit.
а	(i) closed (ii) closed (iii) closed	
	(iv) open	
b	C: Materials W and V	Had mentioned many times in class!
	R: electric current so	Open circuit → electric current cannot flow through
	flow through the circuit.	Closed circuit → electric current can flow through
13	Concept(s)/Skill(s) assessed: Investigate the effect of the current on circuit arrangement Construct simple circuits from circuit diagrams.	(series & parallel).
а	circuit A: series  circuit B: parallel	'arrangement' means whether it is a series or parallel arrangement
b		Not accepted:  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)