

S. C. J. C.

Nan Hua Primary School Primary 5 Science Term 3 Weighted Assessment 2020

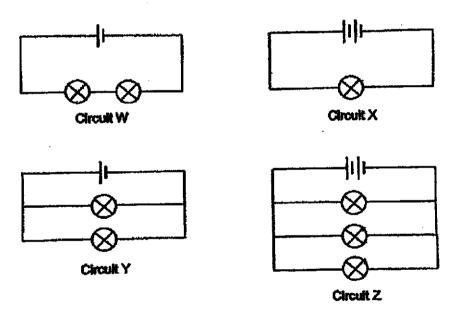
Ma	Marks				
Section A:	/10				
Section B:	/10				
Total:	/20				

Name:	
Class:	Primary 5/
Data:	

Answer all questions.

Section A: $(5 \times 2 \text{ marks} = 10 \text{ marks})$ 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 Jastyn set up four electrical circuits, W, X, Y and Z. The builbs and batteries used were identical, and they were all in working condition.



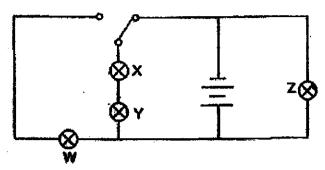
Which circuit will the bulb(s) be the least brightly lit?

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

4

}

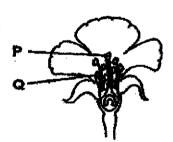
2 The diagram below shows an electric circuit.

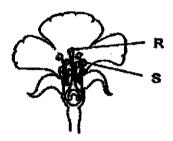


When the switch is at the current position, which builb(s) will be the brightest?

- (1) Z only
- (2) X and Y only
- (3) X, Y and Z only
- (4) W, X, Y and Z

3 The diagram below shows two flowers from the same plant.

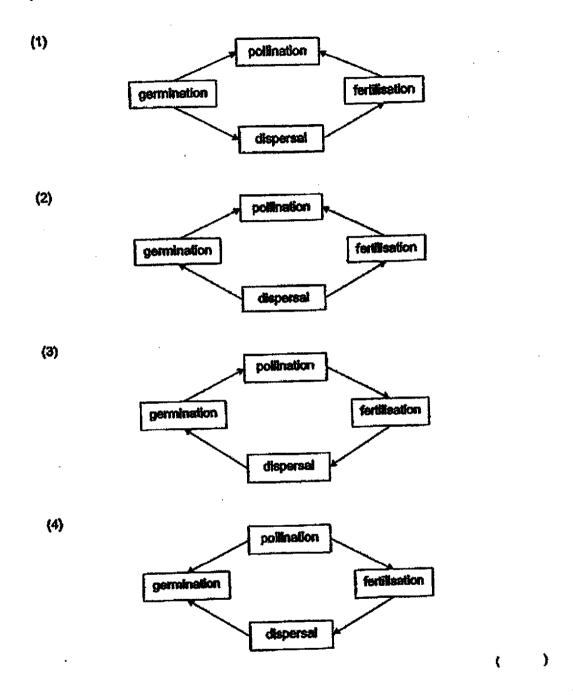




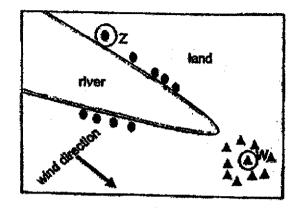
Politination between these two flowers occurs when polien grains are transferred from

- (1) PtoR
- (2) Pto 8
- (S) QtoR
- (4) QbS

Which one of the following shows the correct sequence in the reproduction of a flowering plant?



5 The diagram below shows how the seeds of fruit W and Z are dispersed from their parent plants.



parent plant of fruit W A
seeds of fruit W A
parent plant of fruit Z
seeds of fruit Z

Which of the following shows the dispersal methods for seeds of fruit W and Z?

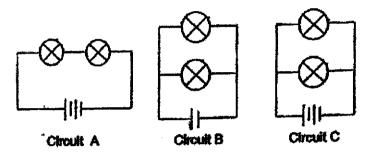
	W	Z	
(1)	animai dispersal	wind dispersal	
(2)	animai dispersal	water dispersel	
(3)	apiliting action	wind dispersal	
(4)	splitting action	water dispersal	

4

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.

Study the four-circuit diagrams shown below. The batteries and builbs used in the circuits are similar.



- (a) (i) Which circuit, B or C, has bulbsthat is as bright as those in circuit A? [1]
 - (ii) Gopal wants to find out if the arrangement of bulbs affect the brightness of the bulbs.

 Which of the two circuits should be choose? Explain your answer.

 [1]

Score 2

8 (b) Janica has two bedrooms in her toy doll house. She wants to light up the two hedrooms in her doll house. Each bedroom needs a bulb to light up,

She has the following materials:

- wires
- two light bulbs
- two switches

Using symbols, draw a circuit diagram to show how the bulb in each room can be switched on or off one at a time without affecting the bulb in the other bedroom. Two betteries have been drawn for you below.

Bedroom 1 Bedroom 2

Score	
	/ 2

[2]

The diagram below shows the fruits of two different plants. sweet. hook-like juicy flesh structures seeds fruit Z when cut open fruit Z fruit Y [1] (a) State one similarity in the way the two plants disperse their seeds. (b) Explain how the characteristic of fruit Y shown above helps in its seed dispersal. [1] (c) Jane wanted to grow some seeds. She placed the seeds in a set-up at room temperature as shown below. black wooden box substance to absorb oxygen seeds dry cotton wool After two weeks, none of the seeds germinated. What factors in the set up does she need to change in order for the seeds to germinate? Explain your answer. [1]

7

Score

Jason conducted an experiment to find out how the length of the wings of the paper aeroplane affects the time taken for it to reach the ground. He dropped four paper aeroplanes with different lengths of wings from the same height. He recorded his measurements in the table below.

Paper aeropiane	Length of Wing (cre)	Time taken to reach the ground (s)
Α	10	14
8	7	10
C	6	8
D	4	6



[1]

(a) Based on the results, what is the relationship between the length of the wings of a paper aeroplane and the time taken for the paper aeroplane to reach the ground?

Jason found two similar fruits from the same plant, fruit Q and fruit R, with wing-like structures of different lengths as shown below.



- (b) Based on the results above, which fruit will most likely be dispersed further away from the parent plant? Explain your enswer.

 [1]
- (c) Give a reason why the seeds of fruit Q and R need to be dispersed further away from the parent plant.

End of paper 8 Score 3

SCHOOL:

NAN HUA PRIMARY SCHOOL

LEVEL SUBJECT: PRIMARY 5

SCIENCE

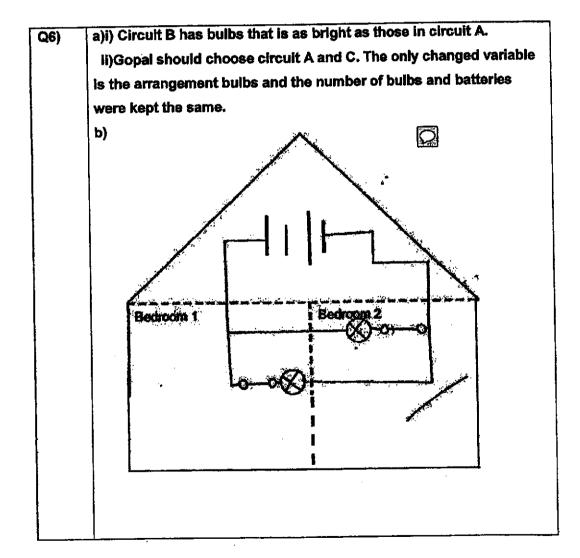
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SECTION A

 ${\bf p}^{\lambda_1}$

1	Q1	Q2	Q3	Q4	Q5
	1	1	3	3	4



Pg 1

Q7) a)Both plants are dispersed by animal dispersal. b) The hook-like Structures on fruit Y helps it during its seed dispersal because the hook-like structure can cling onto the hair of animals of the clothes, skin or shoes of humans. When the animal or human moves to another place, away from the parent plant, the seed would eventually drop of to germinate. c) Jane needs to wet the cotton wool and take away the substance to absorb oxygen, because seeds needs water, oxygen and warmth to germinate, thus Jane needs to wet the cotton wool and remove the substance to absorb oxygen. a)The longer the length of the wings of the paper aeroplane, the time Q8) to reach the ground increases. b)Fruit Q is likely to be dispersed further away from the parent plant, because fruit Q's wing-like structure is longer then fruit R's, which allows fruit Q to float longer in the air and to be carried further away from the parent plant thus fruit Q is likely to be dispersed further away from the parent plant. c)Seeds Q and R needs to be dispersed further away from the parent plant so as to reduce the competition for sunlight, water and space. To prevent overcrowding.