Anglo-Chinese School (Primary)
A Methodist Institution (Founded 1886)

P5 Science Topical Revision Worksheet 1
Electricity

30

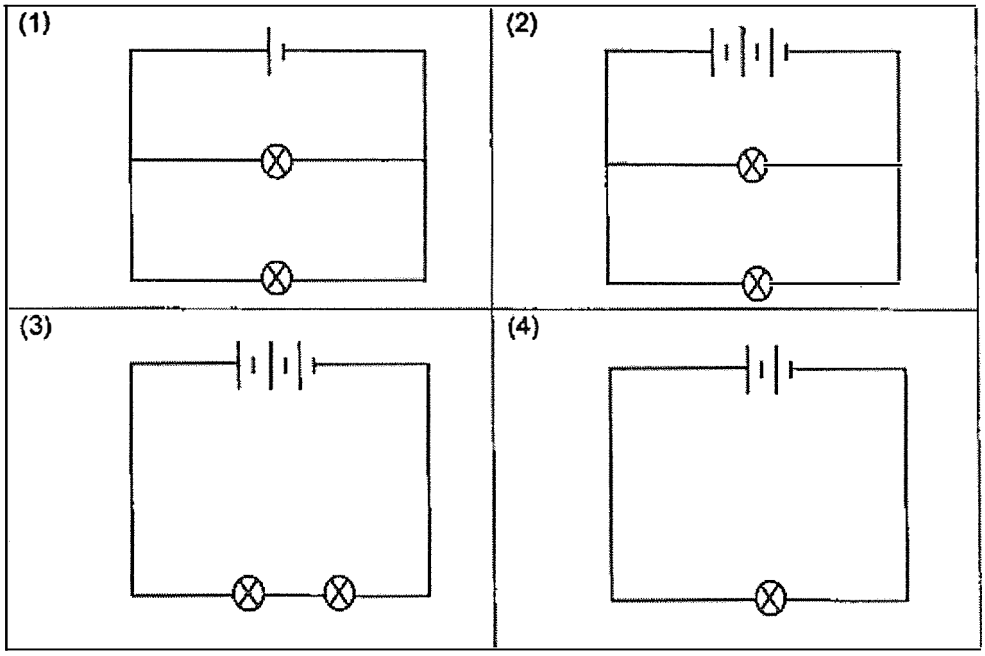
Name: _____ ( ) Date: _____

Class: P5____

Section A: (10 x 2 marks)

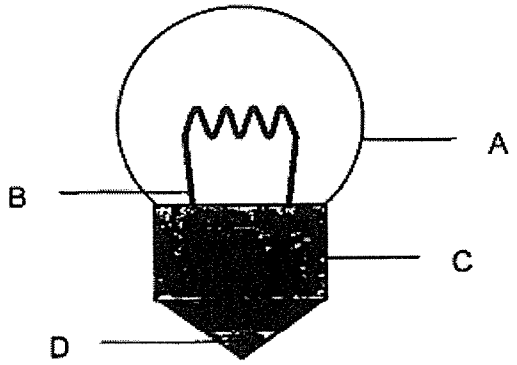
Choose the most suitable answer and write its number (1, 2, 3 or 4) in the brackets provided.

1 Study the following electric circuits. If all the bulbs and batteries are in working condition and are identical, in which circuit will the bulb(s) be the brightest?



( )

2 The diagram shows a light bulb.

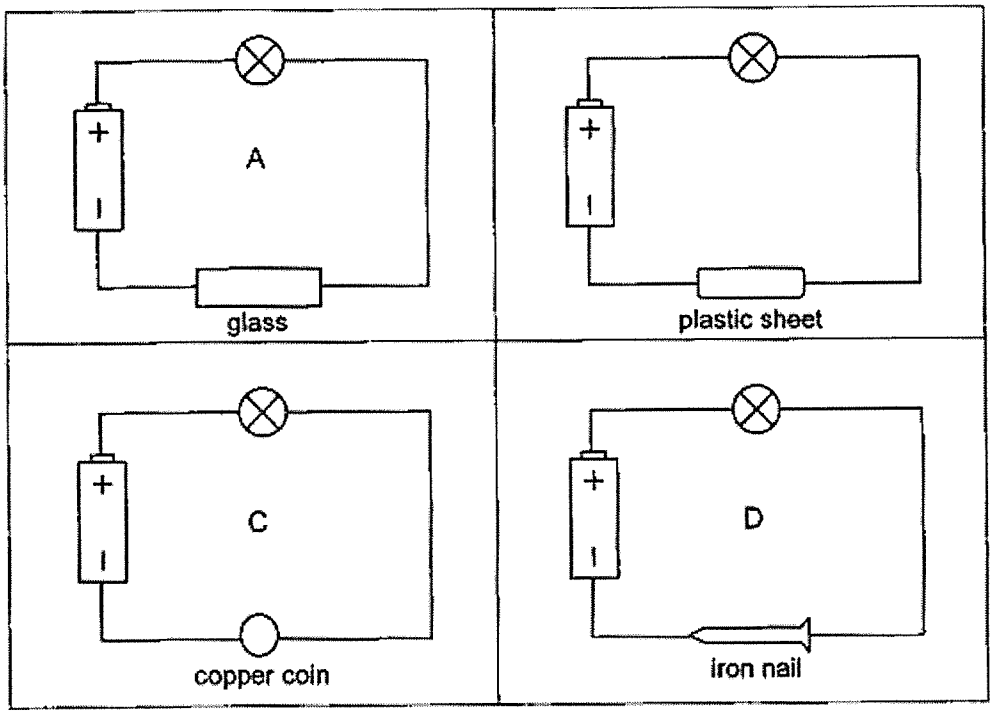


Which parts of the bulb are good conductors of electricity?

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

( )

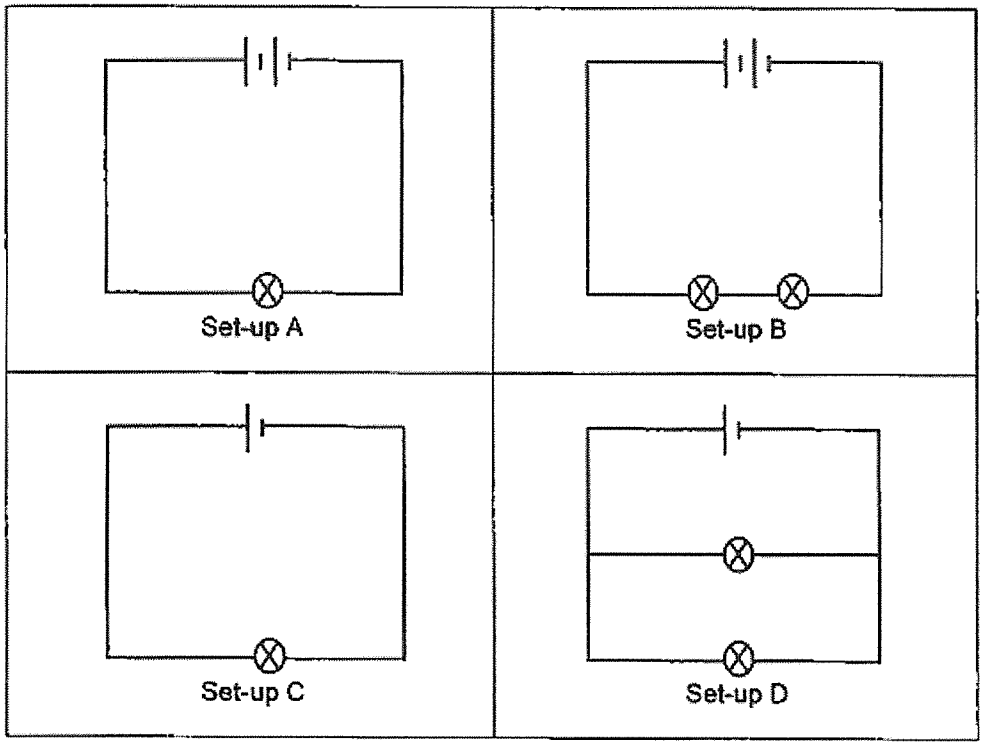
3 Which of the following circuit(s) is / are closed?



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

( )

4 Kenny wants to find out how the number of batteries affects the brightness of a bulb.

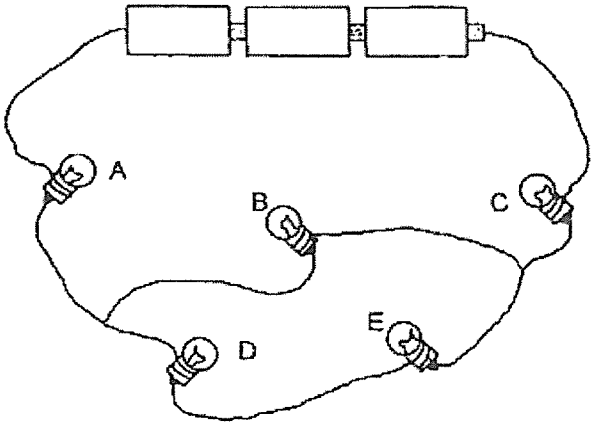


Which two of the set-ups should he use?

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

( )

5 Study the circuit below.

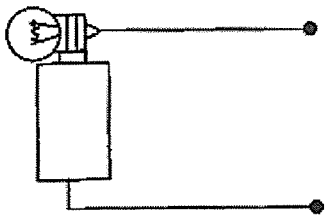


Which of the bulbs will still light up when bulb D fuses?

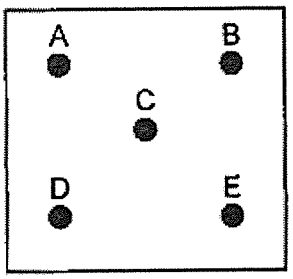
(1) A and C only
(2) A, B and C only
(3) A, B, C and E only
(4) None of them

( )

6 The circuit card has a metal thumbtack at each of the points A, B, C, D and E. Some of the thumbtacks are connected by wires behind the card.



Circuit tester



Circuit card

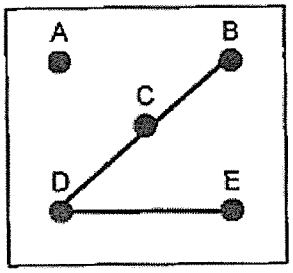
To find out how these thumbtacks are connected, the two ends of the circuit tester are connected to two different thumbtacks each time.

The results are shown in the table below.

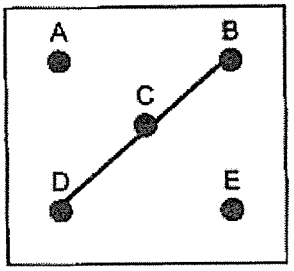
Tester connected to thumbtacks at	Does the bulb in the circuit tester light up?
A and D	No
B and D	Yes
C and E	Yes

From the results shown in the table above, which one of the following is a possible arrangement of the wires behind the circuit card?

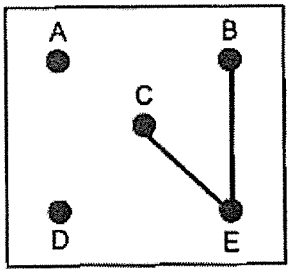
(1)



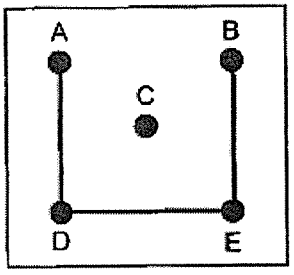
(2)



(3)

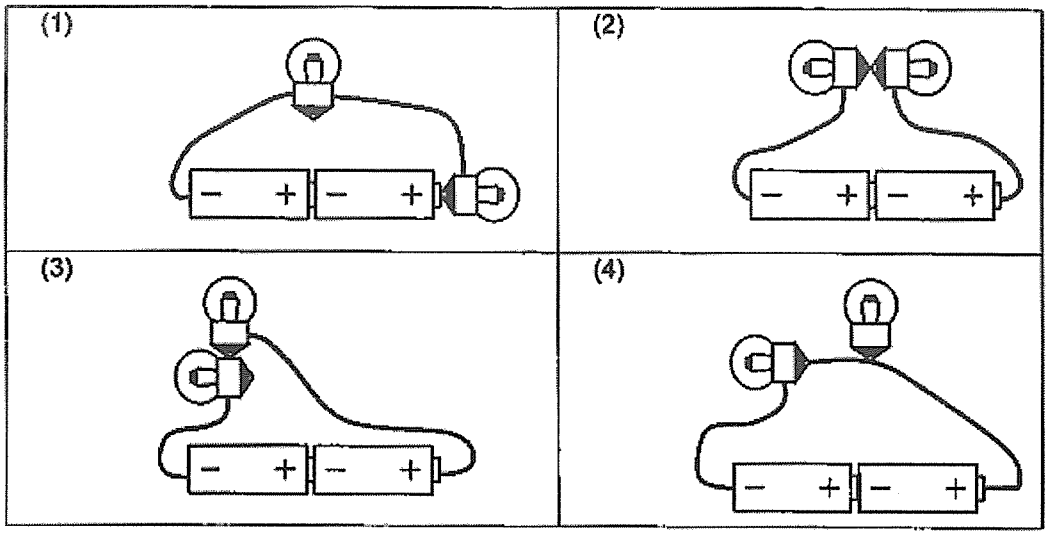


(4)



( )

7 In which of the circuits will both the bulbs light up?



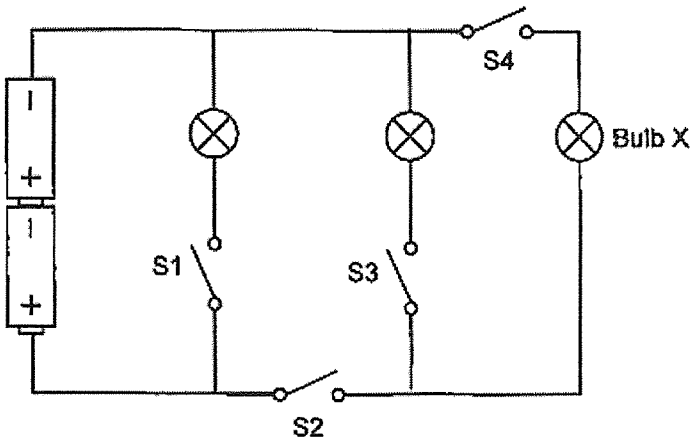
( )

8 Which of the following actions helps to conserve electricity?

(1) Switching on the light when leaving the room.
(2) Setting the air conditioner to 25°C instead of 19°C.
(3) Plugging many electrical appliances into a main socket.
(4) Using an electric dryer to dry the clothes on a sunny day.

( )

9 The diagram shows an electric circuit.

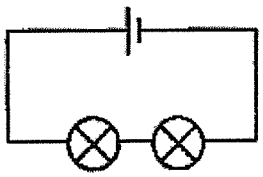


To light up bulb X only, which of the switches should be closed?

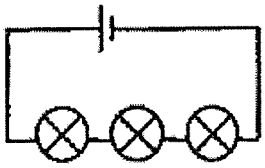
(1) S1 and S3 only
(2) S2 and S4 only
(3) S2, S3 and S4 only
(4) S1, S2, S3 and S4

( )

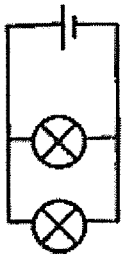
10 Christian wants to investigate how the arrangement of the bulbs will affect the brightness of the bulb.



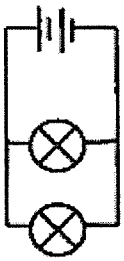
Circuit A



Circuit B



Circuit C



Circuit D

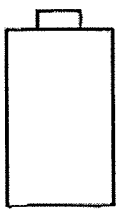
Which two circuits should he use for his experiment?

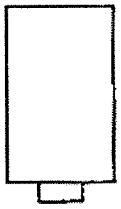
(1) A and B
(2) A and C
(3) B and C
(4) C and D

( )

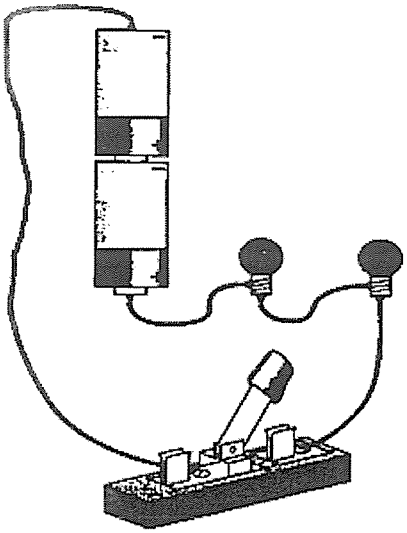
Section B (10 marks)
Read each question carefully and write your answer in the space provided.

11 In the diagram, draw wires to show how you would connect the two batteries and the bulb so that the bulb will give out the brightest light. [2]
Use a pencil and ruler for your drawing.

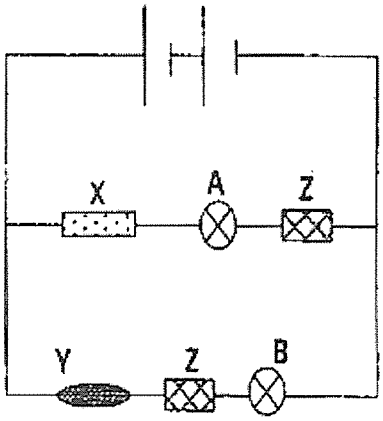


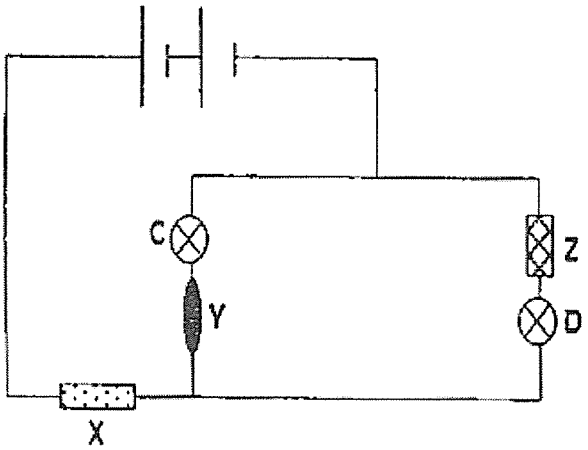


12 Draw a circuit diagram, using only circuit symbols for the following electrical circuit. [3]
(Note: the switch is opened)



13 Albert set up two electrical circuits using the following items:
batteries, wires, light bulbs, materials X, Y and Z.

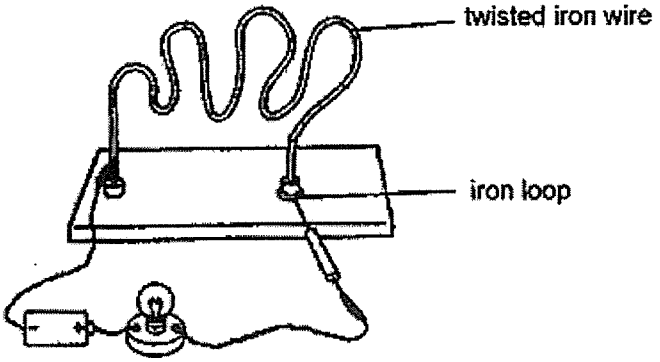




Using the information above, complete the table to show all the other missing observations. [2]

Bulb	Light up? (Yes or No)
A	
B	No
C	
D	Yes

14 Jay built a game using an electrical circuit as shown in the diagram. He made an iron loop which is used to go round a coil of twisted iron wire.



(a) What property of iron allows this game to work? [1]

(b) Describe how the game works. [1]

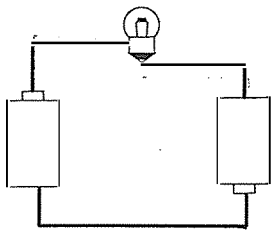
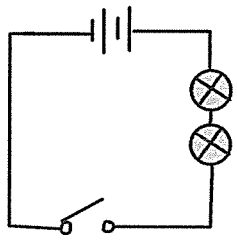
(c) If another battery is added to the circuit, what will be observed when the loop touches the wire? [1]

SCHOOL : ACS PRIMARY SCHOOL
LEVEL : PRIMARY 5
SUBJECT : SCIENCE
TERM : 2023 ELECTRICITY WORKSHEET 1

SECTION A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	3	2	1	2	1	2	2	2	2

SECTION B

Q11	
Q12	
Q13	Bulb A: Yes Bulb C: No
Q14a	Iron is a conductor of electricity.
Q14b	When the iron loop touches the twisted iron wire, a closed circuit is formed and electric current can flow through the circuit, causing the bulb to light up.
Q14c	The bulb will light up brighter.