Quiz 2 Electric Circuit Name:_____ Class: _____ Date: _____

Mark _____ / 33

1. Name the following electrical circuit components.

a 

b 

c 

_____

_____

_____ (3)

2. Draw the symbols for the following electrical components.

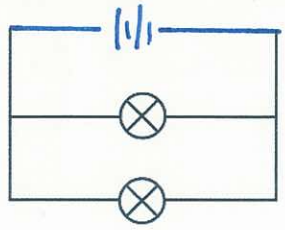
(a) closed switch (b) resistor (c) ammeter (3)

3. Write the unit and unit symbol used to measure:

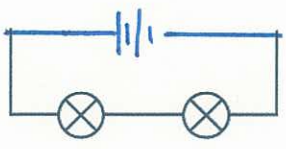
	Unit	Symbol
a current	_____	_____
b voltage	_____	_____
c resistance	_____	_____

(3)

4. Define each the following sets of light globes as in either <u>series</u> or in <u>parallel circuit.</u>

a 

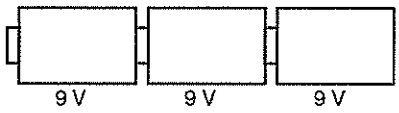
_____

b 

_____ (2)

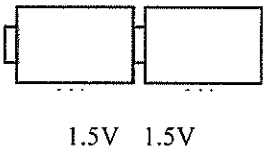
5. Calculate the supply voltage of the battery arrangement for each set of torch batteries.

5a.



Supply Voltage _____

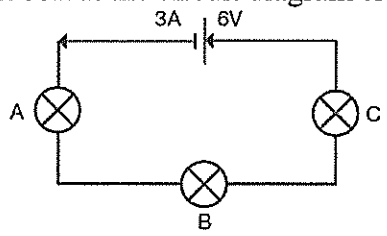
5b.



supply voltage _____

(2)

Look at the circuit diagram to answer Q 6, Q 7 & Q8



6. All globes in the circuit above were working correctly when globe A broke and stopped glowing. Which of the globes would also have stopped glowing because of this?

A all globes
B only globe C
C only globe B
D no other globes stop glowing

(1)

7. Globe A was then replaced so that all globes in the circuit above were once again working. Soon after, globe C broke and stopped glowing. Which of the other globes would also stop glowing because of this?

A all globes
B only globe C
C only globe A
D only globe B

(1)

8. The circuit is set up as a _____ circuit. (1)

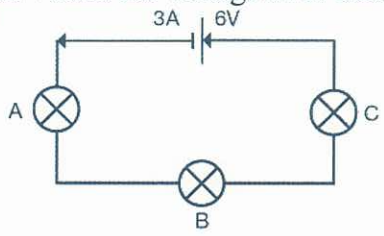
9. In the space below : Draw a circuit diagram

a battery of 3 cells, a switch, an ammeter, a single resistor, and 3 globes in series to each other (Hint: Use ruler & pencil, cross off each label as you use it!)

(7)

10. Write the voltage over each of the light globes in the circuits below.

a



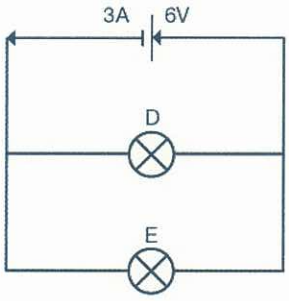
Globe A _____

Globe B _____

Globe C _____

(3)

b

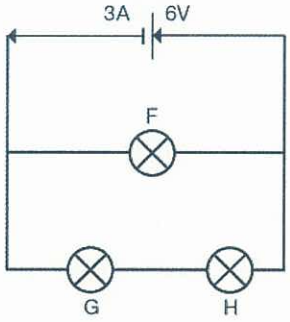


Globe D _____

Globe E _____

(2)

c



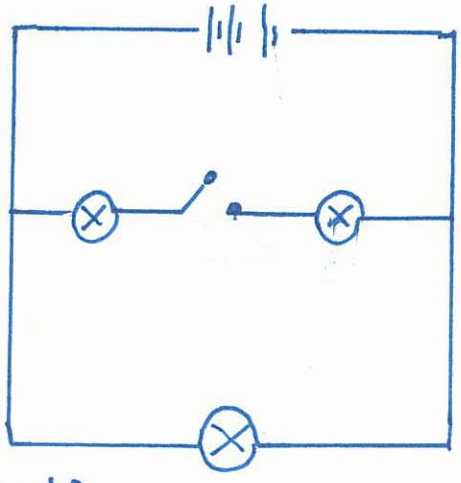
Globe F _____

Globe G _____

Globe H _____ (3)

11. Look at this circuit

Describe what will occur when the switch is closed / and switch open



Switch closed: _____

_____

Switch open: _____

_____ (2)