

St. Patrick's Roman Catholic School
Science and Technology Teacher's Made Test

35 Marks Total

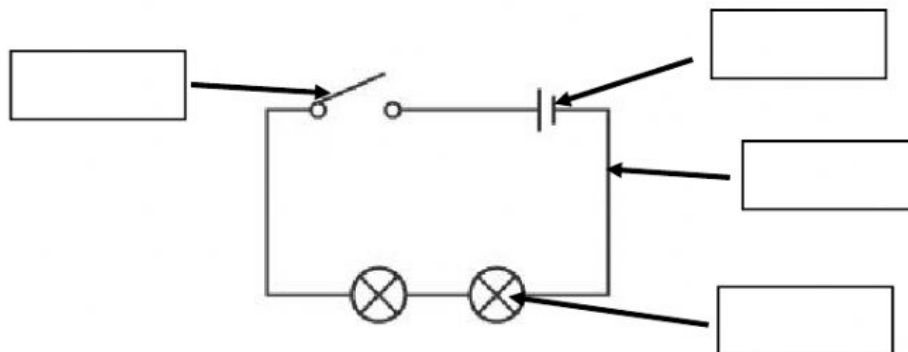
Name: _____ Date: _____

A. Indicate whether the following sentences are **True** or **False**. (1 mark each, 6 marks total)

1. Energy can be destroyed and created. ☐ True ☐ False
2. Energy is measured using joules. ☐ True ☐ False
3. When a circuit is closed, the bulb will not shine. ☐ True ☐ False
4. Three bulbs in a series circuit will shine duller than three in a parallel circuit. ☐ True ☐ False
5. Mechanical energy is both kinetic or potential. ☐ True ☐ False
6. Energy transfer is symbolized using an arrow. ☐ True ☐ False

B7. Label the following parts of the circuit. (1 mark each, 4 marks total)

Switch Battery Wire Bulb

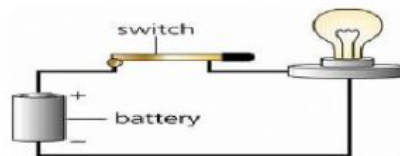


C. Choose the best options in the following items. **(2 marks each, 10 marks total)**

8. Which of the path ways below shows the correct energy conversion when fireworks are used?

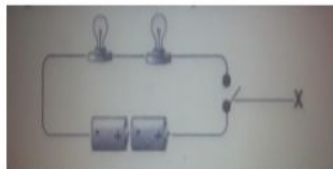
- (a) Sound → chemical → light
- (b) Chemical → light → sound
- (c) Light → sound → chemical

9. Which of the following correctly shows the energy conversion that occurs in lighting the bulb, as illustrated in the diagram below?



- (a) Chemical → electrical → light
- (b) Electrical → light → chemical
- (c) Chemical → light → electrical

10. Look at the picture below.



The lamps and the battery are

- (i) connected in parallel.
- (ii) connected in series.
- (iii) parts of a simple circuit.

- (a) ii only
- (b) i and ii
- (c) ii and iii

11. This simple circuit produces

- (a) heat only
- (b) light only
- (c) heat and light

12. Which of the following forms of energy is **LEAST** likely to be emitted from a burning candle.

- (a) Heat
- (b) Light
- (c) Sound

D13. Sort the following items as insulators and conductors. (.5 marks each, 6 marks total)



Electrical Conductors

Electrical Insulators

E14. Define the following terms. *You can use examples to help with your response.* (2 marks each, 4 marks total)

Energy

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Circuit



F. You are hired as a guest speaker to inform a group of homeowners of electrical safety rules they should observe in their homes. Using the space below, make a list of 5 electrical safety rules they should follow. **(1 each, 5 marks total)**

