Electric Circuit

1. **Fill in the blanks**

   A. Electric cell has a _____ terminal and a _____ terminal.

   B. The wires used to connect the various components in a circuit are represented by _____

   C. In devices electric cells are placed _____ or _____

   D. Electric circuit is generally represented by a _____.

   E. If we experiment with the electric supply from the mains or a generator or an inverter we may get an _____

2. **True or false**

   A. In the symbol of the electric cell, the shorter line represents the positive terminal and the thicker, longer line represents the negative terminal. ☐

   B. Key or switch can be placed anywhere in the circuit. ☐

   C. When the switch is in the 'ON' position, the circuit from the positive terminal of the battery to the negative terminal is complete. The circuit is then said to be closed and the current flows throughout the circuit instantly. ☐

   D. To make a battery of two cells, the negative terminal of one cell is connected to the negative terminal of the other cell. ☐

   E. We should not keep the switch in the 'ON' position for a long time; otherwise the cell may become weak very quickly. ☐

3. **Match the following:-**

Column A	Column B
I. Switch ON	A. Negative terminal
II. Switch OFF	B. Filament
III. Bulb	C. Open circuit
IV. Positive terminal	D. Closed circuit

4. **Answer the following questions**

   A. What is a battery?

   B. How does a battery work if electrics cells are places side by side?

   C. What is an electric circuit? Explain by a diagram. Draw all the symbols associated with a circuit

   D. How can we create a cell holder? List all the components needed

   E. What is thin wire in the bulb called? What happens when the bulb is fused?