

Electronic Fundamental

Read the scenario below and answer the questions that follow.

Scenario:

A school is developing an **automatic lighting system** for its classrooms. The system uses a battery as a power source and contains a resistor, capacitor, transistor, and LED. The components are interconnected so that the LED turns on automatically when the required condition is detected.

Questions:

- a) Based on the scenario, **what do you understand by electronics?**
- b) The system contains a resistor, capacitor, transistor, and LED. **What do you understand by electronic components, and what is their role in an electronic system?**
- c) The resistor, capacitor, transistor, and LED are interconnected to perform a specific function. **What do you understand by an electronic circuit?**