Even More Practice Connecting Circuits
& Drawing Schematic Diagrams

Draw lines on the following diagrams to represent conductors in order to complete the circuits as stated.
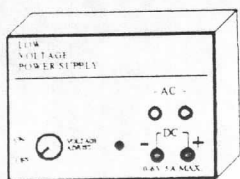
1) Create a circuit in which

    i) the switch controls all current leaving the power supply,

    ii) both bulbs are connected in PARALLEL,

    iii) voltage is measured across each bulb.

2) Draw the schematic diagram for this circuit.

3) Create a circuit in which

    i) all three bulbs are connected in PARALLEL,
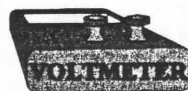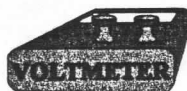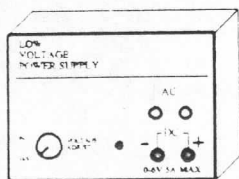
    ii) one switch controls only one bulb,

    iii) the other switch controls all three bulbs,

    iv) voltage is measured across any one bulb,

    v) voltage is measured across any one other bulb.

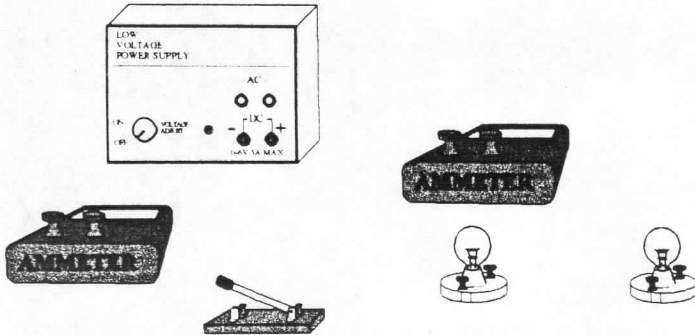4) Draw the schematic diagram for this circuit.

9) Create a circuit in which
   i) the switch controls current leaving the power supply

   ii) the current flowing out of the power supply is measured.

iii) both bulbs are connected in parallel,

iv) the current flowing through one of the bulbs is measured.

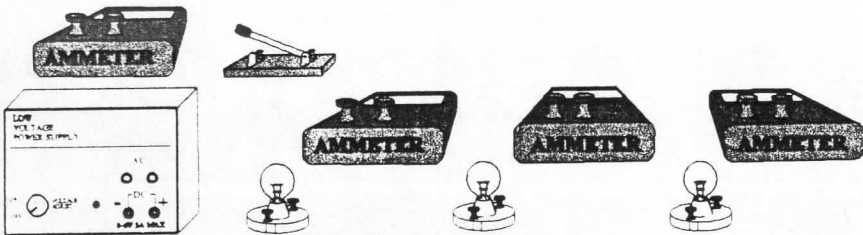10) Draw the schematic diagram for this circuit.

11) Create a circuit in which,
   i) the switch controls ALL current returning to the power supply,

   ii) all three bulbs are connected in parallel,

iii) current is measured flowing through each bulb,

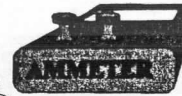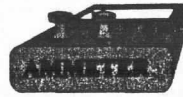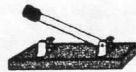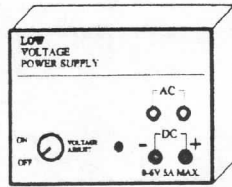iv) current is measured after it leaves the switch.

12) Draw the schematic diagram for this circuit.

13) Create a circuit in which,
    i) the switch controls all current leaving the power supply,

    ii) all four bulbs are connected in parallel,

iii) current is measured flowing through any one bulb,

iv) current is measured returning to the power supply.

14) Draw the schematic diagram for this circuit.

15) Create a circuit in which,
    i) a switch controls the current returning to the power supply,

    ii) all five bulbs are connected in parallel,

iii) current is measured flowing through any one bulb, and

iv) current is measured as it leaves the power supply.
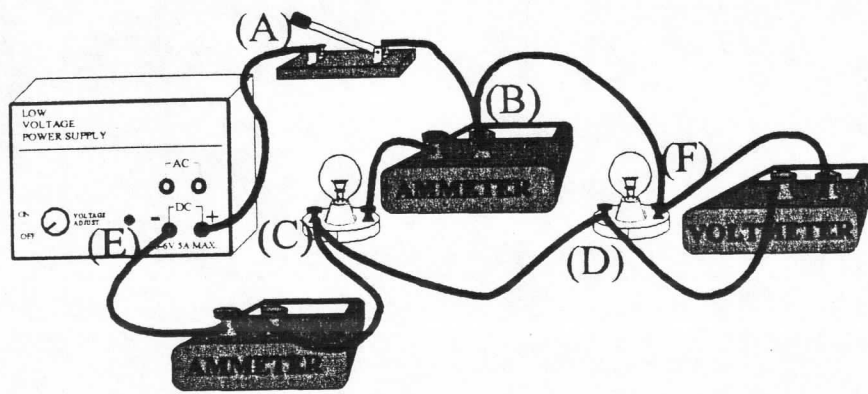
16) Draw the schematic diagram for this circuit.
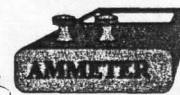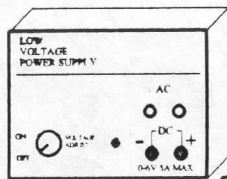
17) Label all the points indicated on the circuit picture on the schematic diagram.
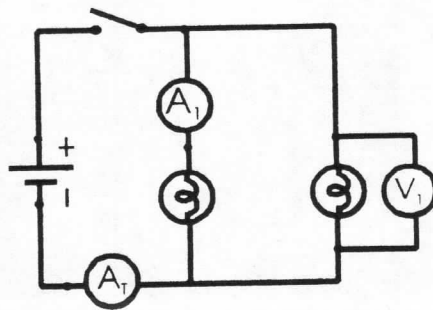
18) Label all the points indicated on
the schematic diagram, on the circuit picture.