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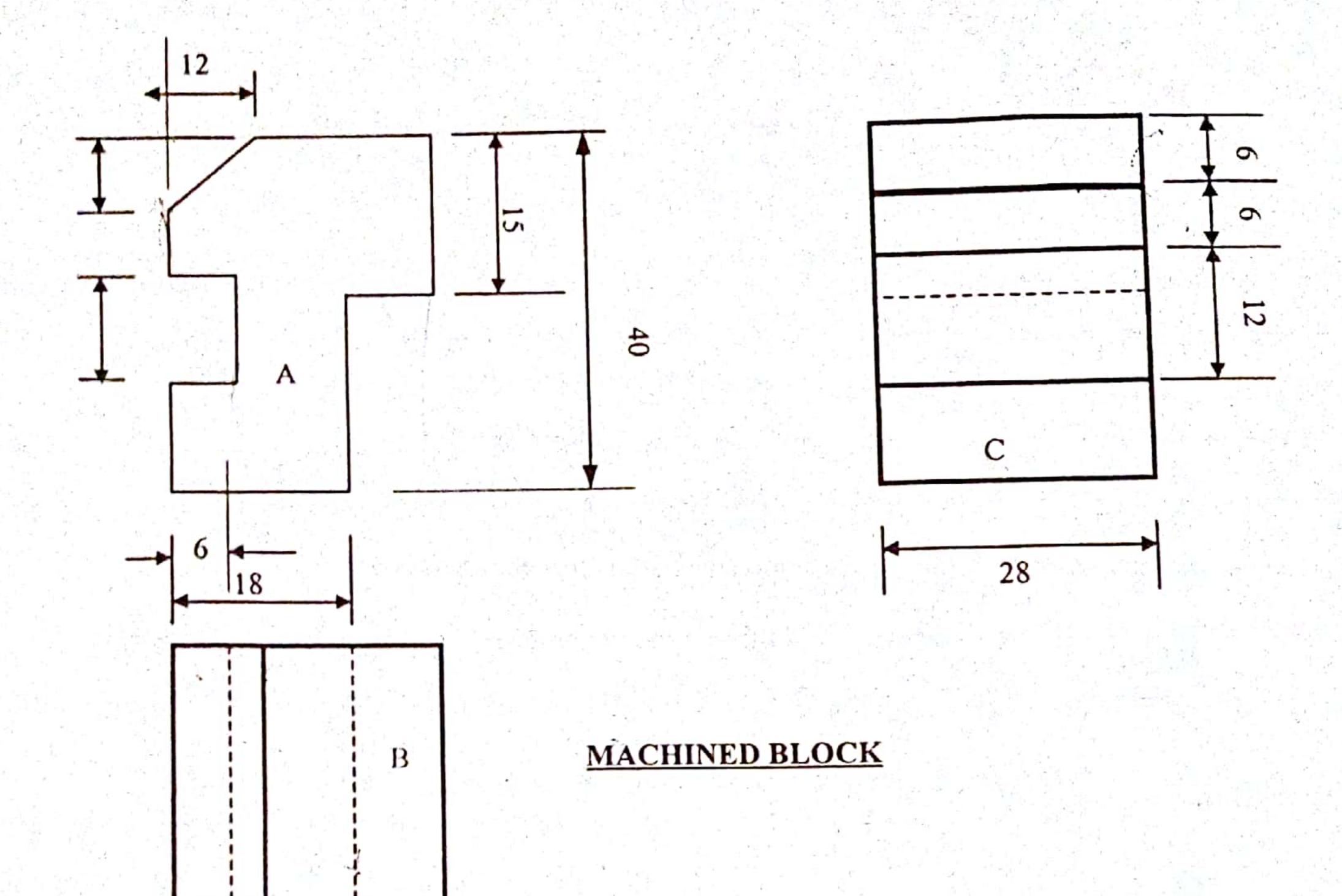
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## TANZANA THE ANTEL REPUBLIC OF TANZANIA THE UNITED REPUBLIC OF TANIANSTRUCTIONS REPUBLIC OF TANZANIA THE UNITED REPUBLIC OF TANZANIA

- 1. This paper consists of SIX (6) questions. TED REPUBLIC OF TANZANIA THE UNITED REPUBLIC OF T
  - Answer FOUR (4) questions including question Number LANA THE UNITED REPUBLIC OF TANZANIA THE U

  - Electronic calculators are not allowed in the examination room. FUBLIC OF TANZAMIA THE UNITED PERUBLIC OF
  - Write your Examination Number on every page of your answer booklet(s). Zaras The UNITED REPUBLIC OF TANZANIA

1. The views shown below are full size first angle orthographic projections of a machined block. View B is a plan view projected from view A. Draw the block in isometric projection.



- 2. Sketch the symbols for the following electronic components:
  - (a) PNP transistor
  - (b) Diode
  - (c) Zener diode
  - (d) AND gate
  - (e) NOT gate
- 3. Define the following terms:
  - (a) Dogleg
  - (b) Crossover
  - (c) Artwork
  - (d) Logic gate

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4. Study the schematic diagram shown in figure 1 below then draw its line diagram indicating the number of conductors used in each section.

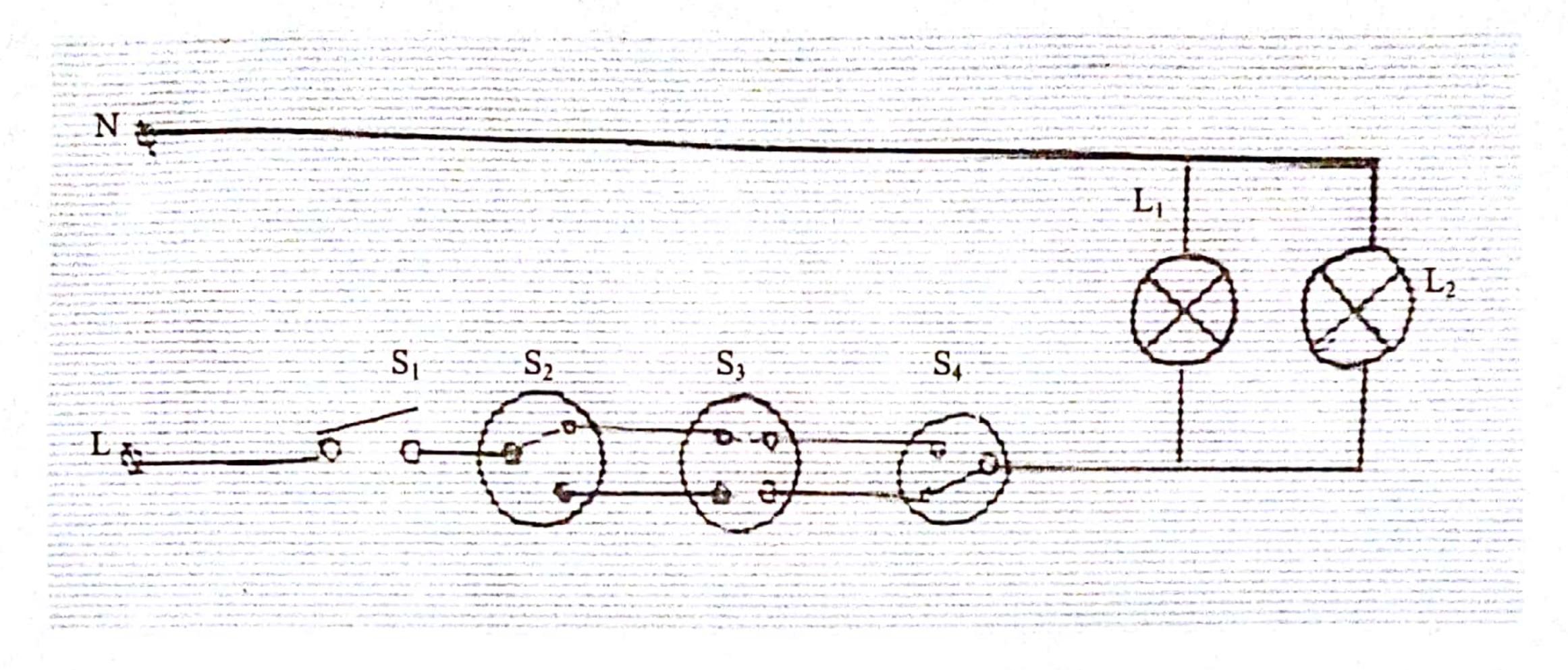


Figure 1

- 5. Sketch the symbol of the following electrical components:
  - (a) Battery
  - (b) Delta connection
  - (c) Combined switch and socket out let
  - (d) Fan regulator
  - (e) Three phase motor.
- 6. Re-draw the circuit diagram of Fig. 2 as a formal diagram.

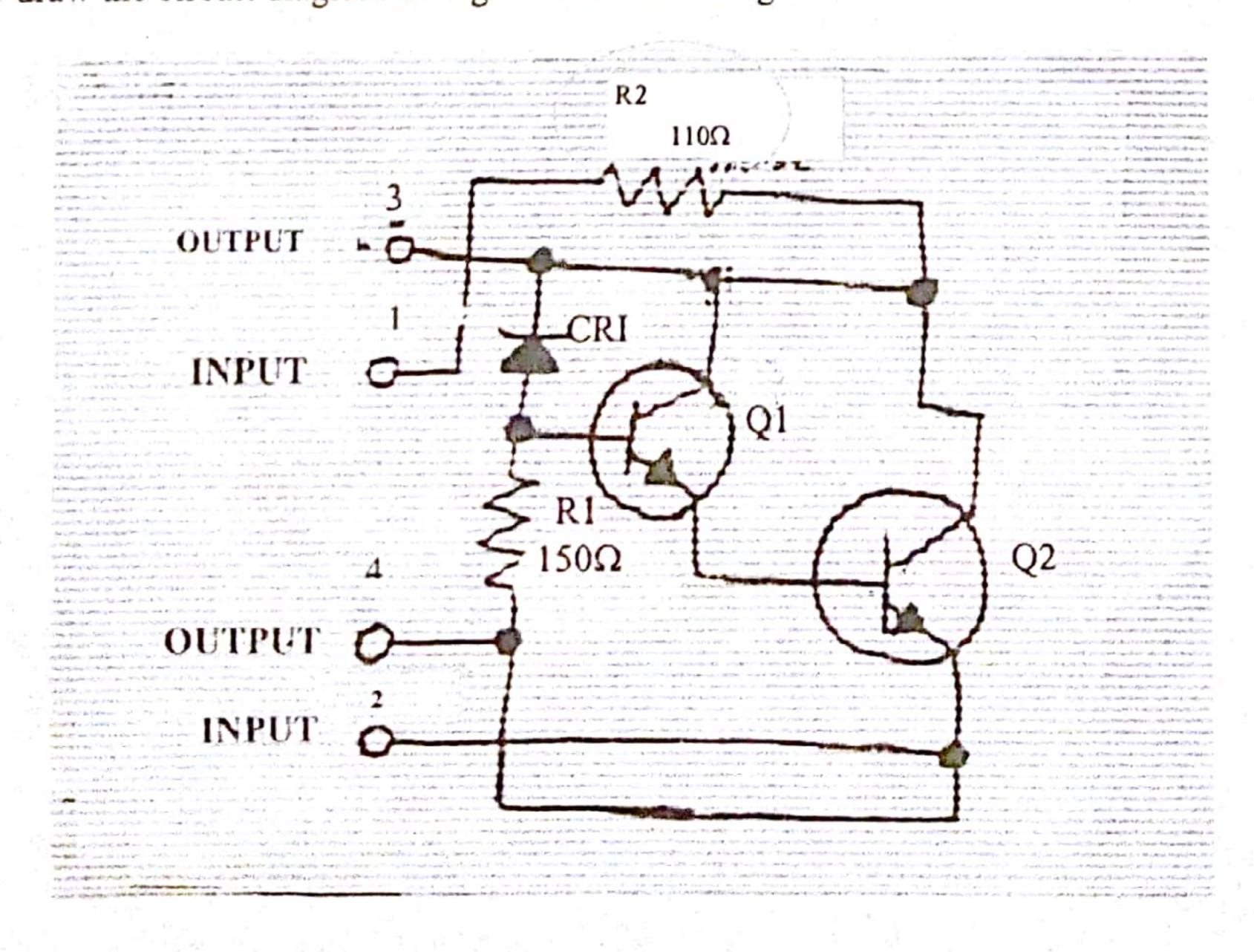


Figure 2