

Computer Architecture

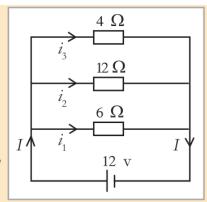
Tutorial - 07

Answer all questions.

01.

Three resistors 4 Ω , 12 Ω and 6 Ω are connected to a supply of 12 V as shown below.

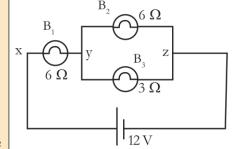
- I. Calculate the total resistance of these three resistors.
- II. What current is gained from the electric supply?
- III. Calculate the current flowing through 6 Ω .
- IV. What is the current flowing through 12Ω ?
- V. What is the current flowing through 4 Ω ?



02.

Three bulls B₁, B₂ and B₃ are connected to 12 V, supply as shown in the following diagram.

- I. Calculate the total resistance of the two bulls B₂ and B₃ (between Y and Z).
- II. What is the total resistance between the two points X and Z.
- III. What is the current gained from the electric supply.
- IV. Calculate the potential difference between X and Y.



- V. Calculate the potential difference between Y and Z.
- VI. Calculate the current flowing through B, bulb.
- VII. Calculate the current through the bulb B₃.
- VIII. If the bulb B₃ is removed, then what would be the current gain from the electric supply.