

Electrical Power Engineering Fundamentals

DC Exam (18th October 2019)

- Solve the circuit below using mesh analysis and provide a circuit diagram showing the value and direction of the currents that flow through each branch
- Calculate the power balance of the circuit
- Calculate Thevenin's equivalent of the circuit between terminals BD **including all the elements of the circuit in the equivalent**
- Using the results of part c calculate the resistor that connected between B and D extracts the maximum amount of power from the circuit and calculate the power absorbed by the resistor.

