Sc!ence

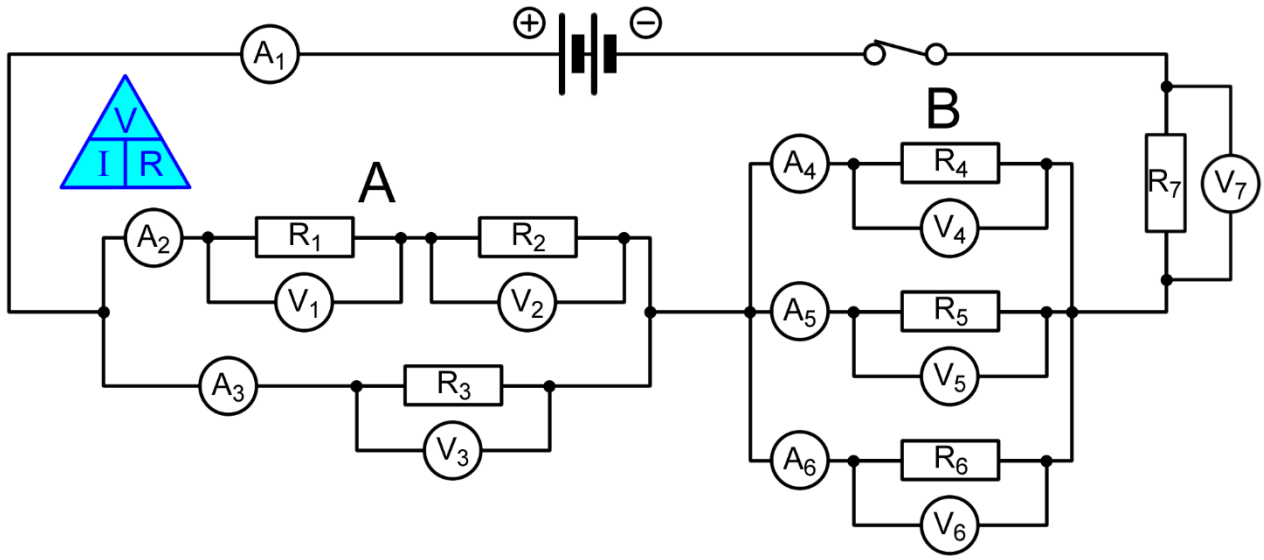
Name: …… **( )**

Class: ……

Date: …… **/** …… **/** ……

Resistors in Series and Parallel – Complex

Question One:



Battery = 26 V R_1 = 25 Ω R_2 = 50 Ω R_3 = 40 Ω R_4 = 80 Ω R_5 = 10 Ω R_6 = 5 Ω R_7 = 100 Ω

(a) Calculate the resistance through part **A** and part **B** of the circuit, and hence calculate the total resistance through the circuit, *i.e.* the value for R_e.

(b) Calculate the current through the main circuit, *i.e.* the value on A_1.

(c) Calculate the potential difference across part **A** and across part **B** of the circuit, and across R_7 (*i.e.* the reading on V_7).

(d) Calculate the current across R_1 to R_6, *i.e.* the readings on A_2 to A_6.

……

……

……

……

……

……

……

……

……

……

- Scan the QR code below for the answers to this assignment.

http://www.nygh.sg/lower_secondary_science/sec_two_science/sec_two_physics/resistors_complex_answers.pdf