

## A

## DC fundamentals EE3103 Student workbook 2020 for Ohms and Kirchhoffs laws with Series and parallel exercises



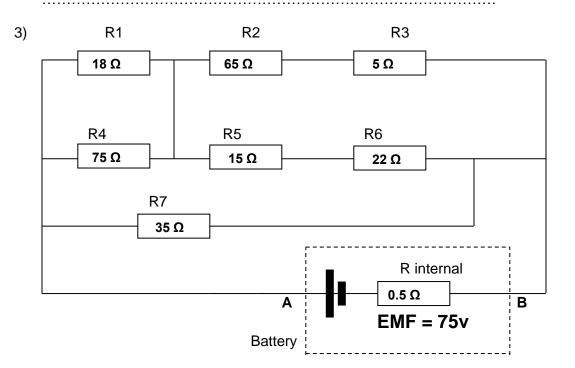
## Student name

OHM'S LAW AND KIRCHHOFF'S ASSIGNMENT

## assignment name.....

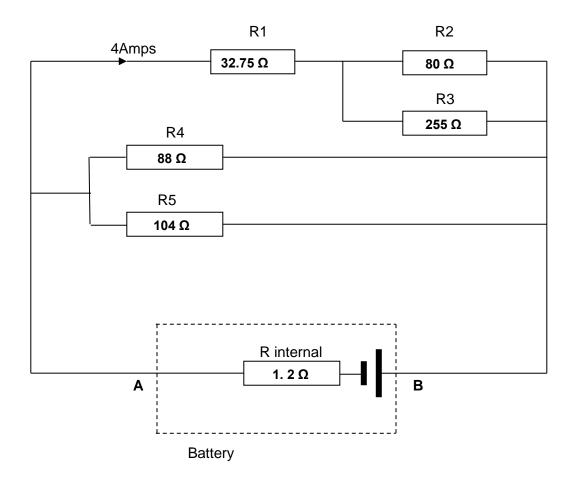
1) Write the 4 equations you would generally employ when solving calculations with **series resistors only** in the circuit.


2) Write the 4 equations you would generally employ when solving calculations with **parallel resistors only** in the circuit.



- a) Calculate total resistance of the external load.
- b) Calculate the total current.
- c) Calculate the voltage at the battery terminals d) Calculate the current through R1, R3, R4, R5, and R7.
- e) Calculate the voltage across R4, R6

4)



From the circuit above.

- A) Calculate the total current.
- B) What is the voltage drop across R3.C) What is the value of the battery EMF