

### Question One

- (i) State three steps employed to analyse electrical circuit by Laplace transform (3pts).  
 (ii) Use nodal analysis to find the voltages at nodes 2 and 3 in figure 1 and hence determine the current flowing in the 2-ohms resistor and the power dissipated in the 3-ohms resistor (12pts).

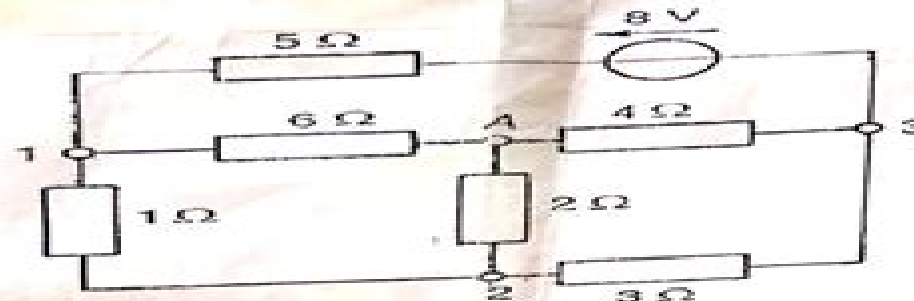


Figure 1

### Question Two

- a. Considering the circuit in figure 2 apply thevenin theorem to solve the following:  
 (i)  $V_{th}$  (ii)  $R_{th}$  (iii)  $I_{Load}$  (iv)  $V_{Load}$  (v) Why would you prefer a star connection over a delta connection. [10 marks].  
 b. Differentiate between thevenin and Norton theorem as applied to circuit theory analysis [5 marks].

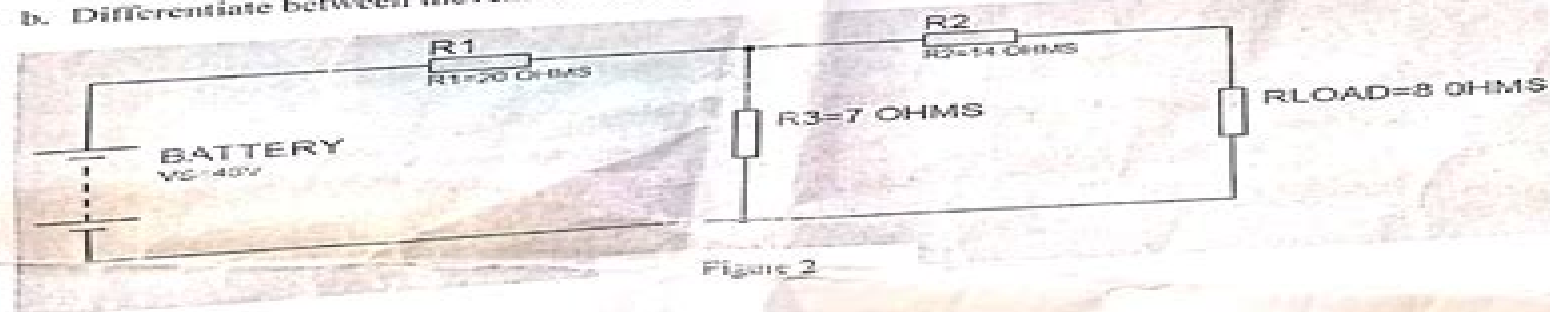


Figure 2

# Nated Electrical Past Question Papers For Electrotechnology

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