

ECE113 - Basic Electronics
CLASS TEST-1

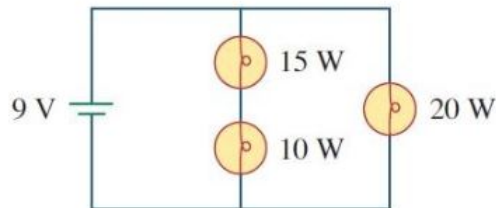
Notes

- 1) All Questions are compulsory.
- 2) Please use notations appropriately.
- 3) Each question carries 5 marks.

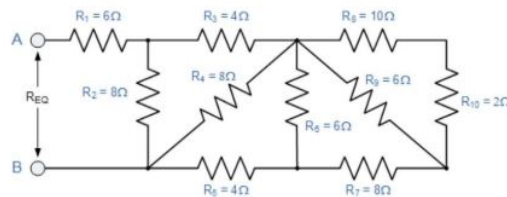
Question

1. Three electric circuit components are connected as shown in the fig below. Find out:

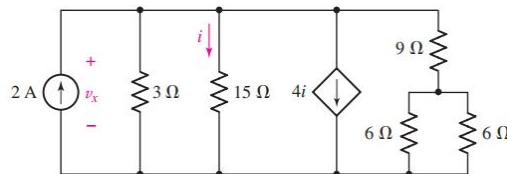
- a) Total current from the dc 9-volt battery
- b) Current through each individual elements
- c) Resistance of each individual elements



2. Ten resistors are connected as shown in the figure below. Find the equivalent conductance R_{EQ} for the given circuit.



3. Calculate the value of v_x in the circuit given below.



4. The charge flowing in a wire is shown below. Sketch the corresponding current.

