

**ANJUMAN-I-ISLAM'S
KALSEKAR TECHNICAL CAMPUS, NEW PANVEL
School of Engineering & Technology**

Subject: BEE
Marks: 20
Duration: 1 HOUR
Class: F.E

Date: _____

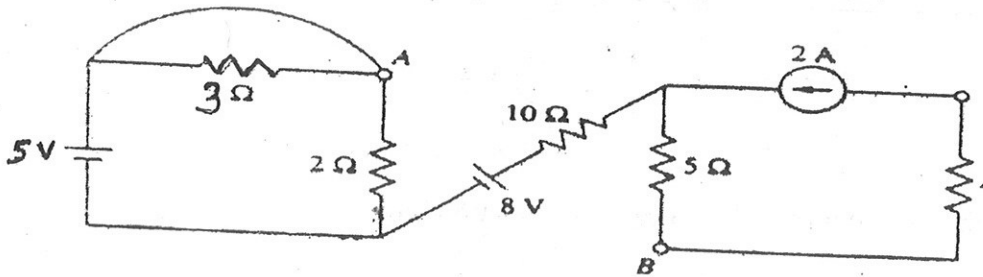
BRANCH-ALL

Instructions: 1) Figures to the right indicate full marks.
2) Assume the data if it is necessary.

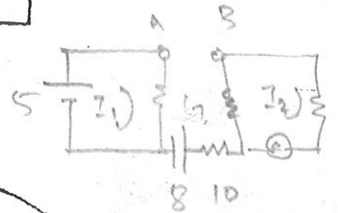
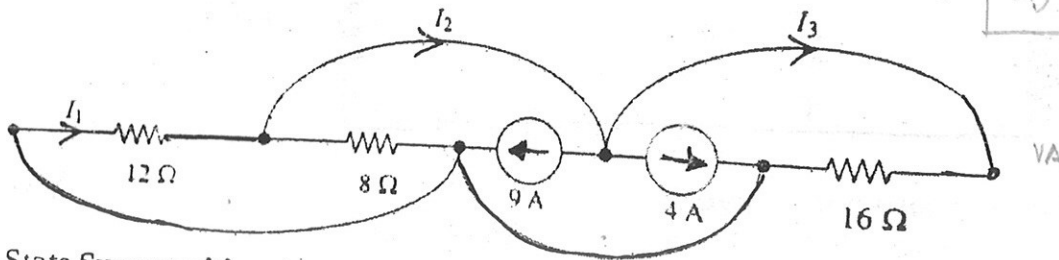
Q.1) A Solve any TWO out of FOUR.

6 M

a) Determine the potential difference V_{AB} for the given network

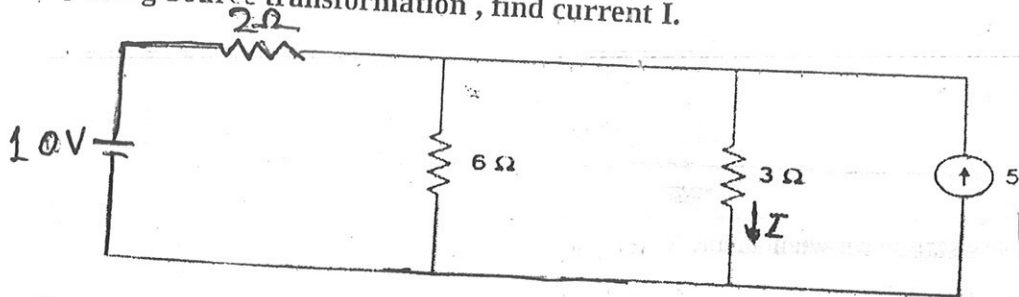


b) Determine the currents I_1, I_2, I_3



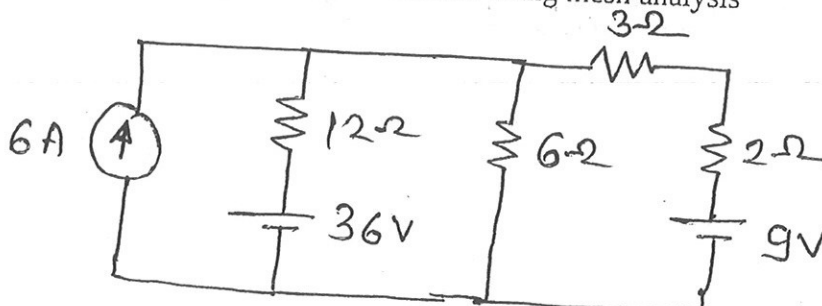
c) State Superposition theorem

d) Using Source transformation, find current I .

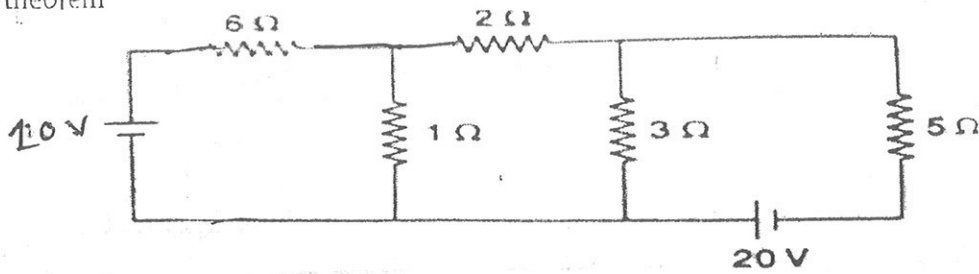


Q.1) B Solve any one out of two.

a) Find the current through the 2 ohm resistor using mesh analysis



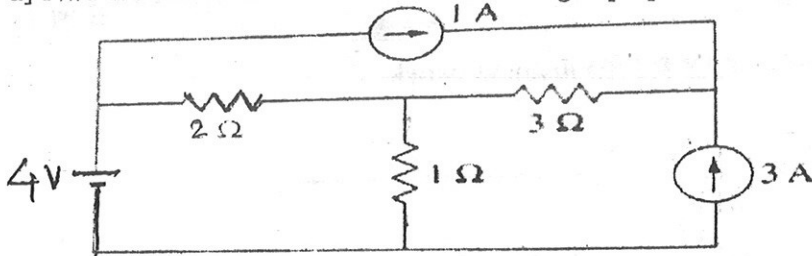
b) Determine the current through 50hm resistor in the network shown in fig below by Thevenin's theorem



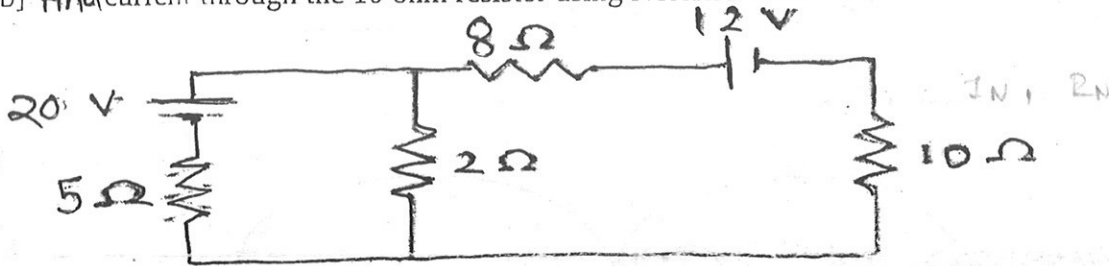
Q. 2) A Solve any **one** out of **two**.

6 M

a) Find the current in the 1ohm resistor using superposition theorem



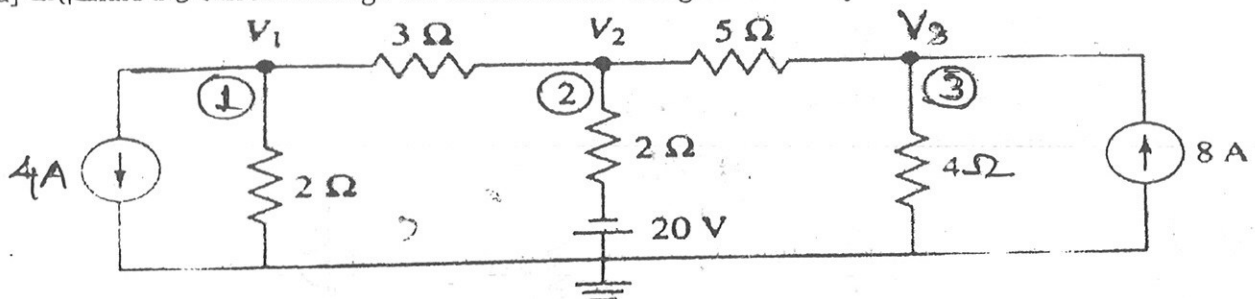
b) Find current through the 10 ohm resistor using Norton's Theorem.



Q. 2) B Solve any **one** out of **two**.

4 M

a) Calculate the current through the 5ohm resistor using Nodal Analysis



b) Find the equivalent resistance between A and B

