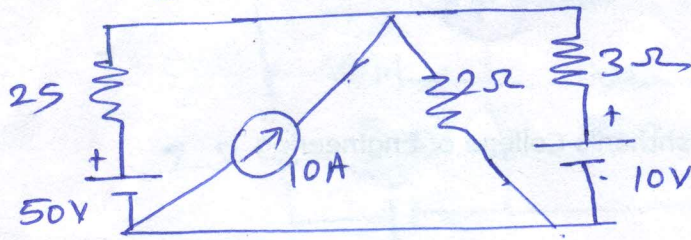


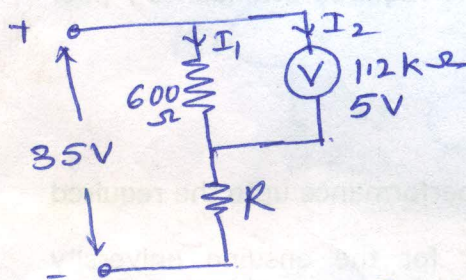
Sem I B.E.E.E. ~~Assignment I~~ Assignment I  
D.c. circuits.

Q1 Find the current flowing through  $5\Omega$  resistance using source transformation. (Dec 12) (03)

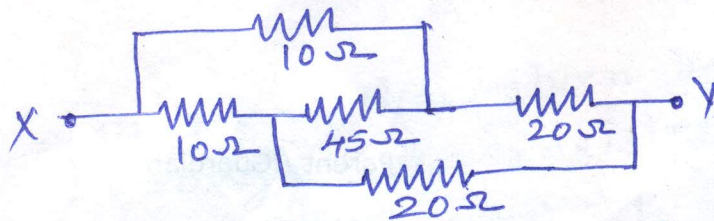


Q2 state and explain maximum power transfer theorem. (Dec 12) (03)

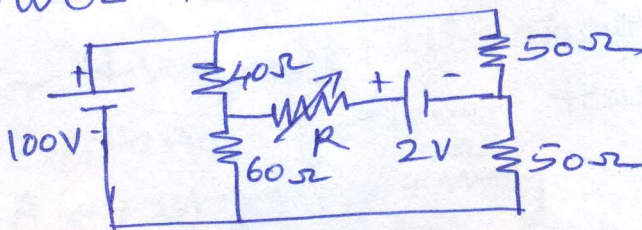
Q3. Determine the value of resistance  $R$  as shown in fig. using KVL & KCL (Dec 12) (06)



Q4 Calculate  $R_{xy}$  for the circuit shown in fig. (Dec 12) (07)



Q5 Determine the value of  $R$  for maximum power transfer. Also find magnitude of maximum power transferred. (08)



Q6 Calculate the branch currents  $I_1$  &  $I_2$  for the circuit shown in fig.

