Munish Sood

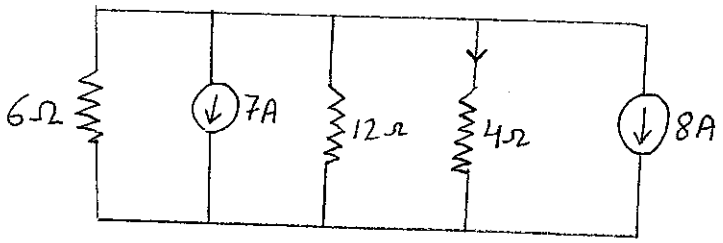
JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
TEST -1 EXAMINATION- Feb 2018
B.Tech IV Semester(BI & BT)

COURSE CODE: 15B11EC411
COURSE NAME: Basic Electronics
COURSE CREDITS: 4

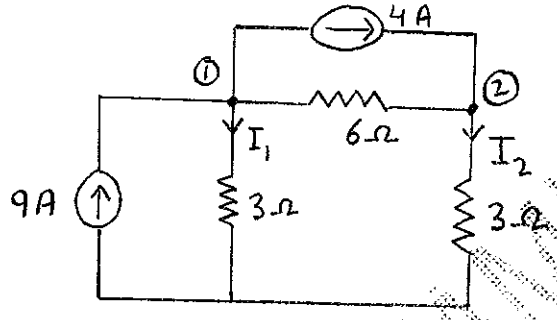
MAX. MARKS:15
MAX. TIME: One Hr

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

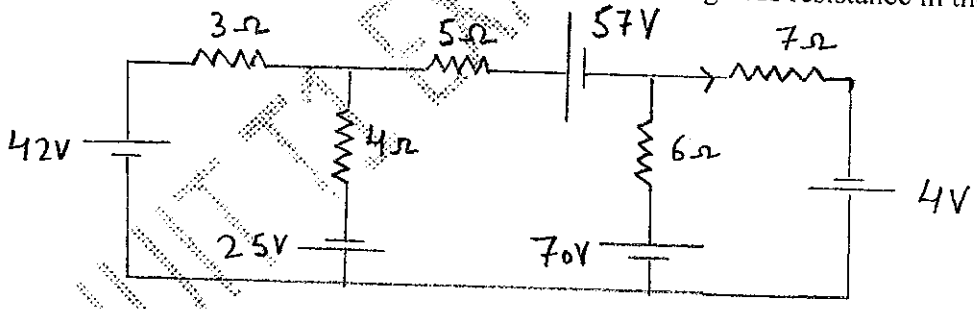
Q1) Using current divider technique, determine the current through the 4 Ω resistance in the circuit of following figure. (4)



Q2) Using nodal analysis to determine the current I_1 and I_2. (4)



Q3) Apply mesh analysis to determine current through 7Ω resistance in the network. (4)



Q4) Determine I, I_1, I_2, V_{ab} and V_{bc} in the network of figure. (3)