Munish Sood

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
TEST -1 EXAMINATION- Feb 2020
B.Tech IV Semester (ECE)

COURSE CODE: 15B11EC411 MAX. MARKS: 15
COURSE NAME: BASIC ELECTRONICS
COURSE CREDITS: 4 MAX. TIME: 1 Hr

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

Q1) Using nodal analysis, find the current through 3Ω resistor in fig.(1). **(3)**

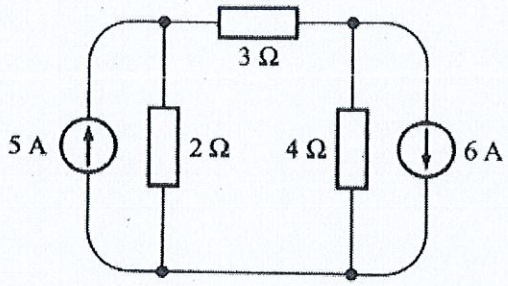

Fig.(1)

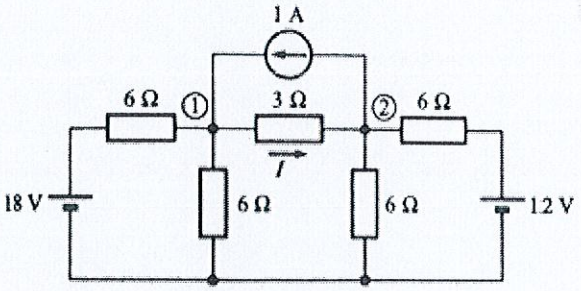

Fig.(2)

Q2) Using mesh analysis find the current *I* and voltages at node 1 and 2 in fig.(2). **(4)**

Q3) Calculate the voltage drop across 3Ω resistor in fig.(3). **(4)**

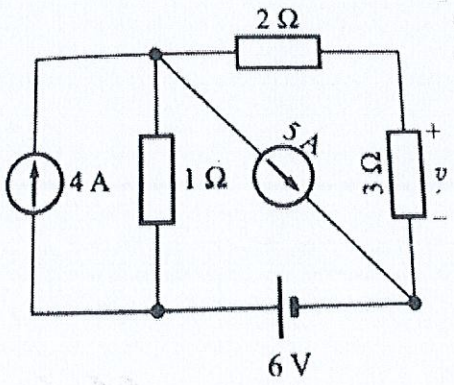

Fig.(3)

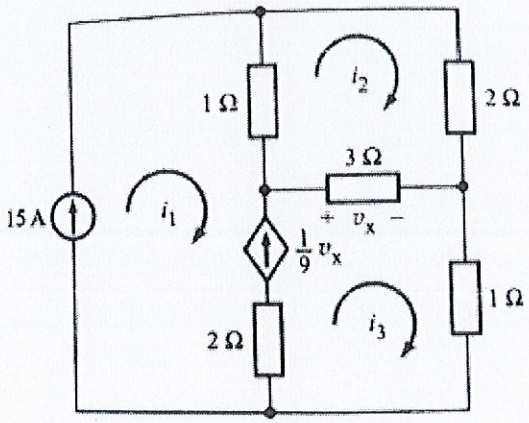

Fig.(4)

Q4) Calculate the loop currents i_1, i_2 and i_3 in fig.(4). **(4)**