Brac University

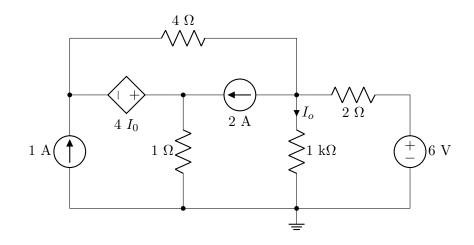
Semester: Spring 2022 Course No: CSE250

Course Title: CIRCUITS AND ELECTRONICS



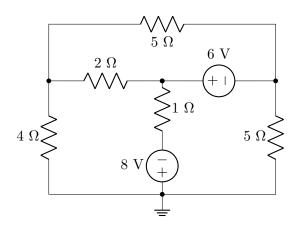
TIme: 1 hour 15 minutes Date: 11 March, 2022

Question 1 of 3 /20 marks/



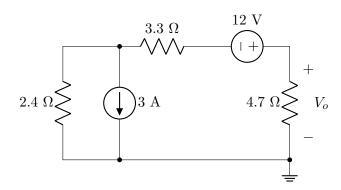
- Apply Nodal/Mesh Analysis to identify the values of the node voltages/mesh currents. (18 marks) [CO2, CO4]
- What is the value of I_o ? (with appropriate \pm sign)? (2 marks) [CO1, CO2]

Question 2 of 3 /20 marks/



- Apply Nodal/Mesh Analysis to identify the values of the node voltages/mesh currents. (16 marks) [CO2, CO4]
- What is the power of the 8 V voltage source? (with appropriate ± sign) [Hint: P = IV] (4 marks) [CO1, CO2]

Question 3 of 3 [10 marks]



• Apply Source Transformation/Superposition and identify the value of V_o . (10 marks) [CO2, CO4]