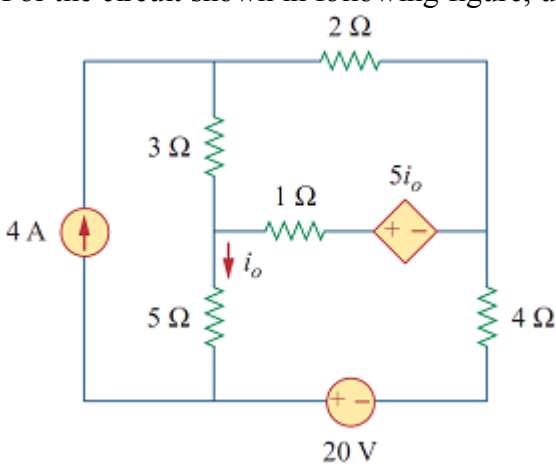


# BHAGWAN MAHAVIR COLLEGE OF ENGG. & TECH. SURAT

ELECTRONICS DEPARTMENT  
ACADEMIC YEAR 2015-16  
B.E. 2<sup>nd</sup> SEMESTER

SUBJECT: BASIC ELECTRONICS  
SUBJECT CODE: 2110016

## ASSIGNMENT: 2

1	Explain in brief about Lumped circuit elements called resistor and capacitor.
2	Write a short note on Ammeter and Voltmeter.
3	Explain WYE-DELTA transformation in brief with necessary equations and circuit diagrams.
4	Write about Differential amplifier using Op-amp with necessary circuit diagram and equations.
5	Describe band pass active filter using Operational amplifier with necessary diagrams and equations.
6	Write a short note on Cathode Ray Oscilloscope.
7	What is difference between in Microprocessor and Microcontroller?
8	Explain in brief about Dot Convention.
9	For the circuit shown in following figure, use the superposition theorem to find $i_o$ . 
10	Explain in brief following properties of operational amplifier. (a) Input Resistance      (b) Open Loop Voltage gain (c) CMRR                      (d) Input Offset Voltage

**Date Of Completion :29/3/2017**