

LABORATORY WORK SHEET

Name of the Student MADKI SAL CHARAN												
Course Code A E E D C	Semester I st 3. Course Name Electrica	al an	d 2	3	9	5	1 6	9 6	6	F	2	
Name of the Course Faculty	Course Name Electron Electron VARALA	KSH.	Eng	ine	er	Fac	Bity it	la D A	AR	E	ito.	2
Exercise Number 0 2	Week Number	0	3			Da	tel	7	No	Ven	obes	10

DAY TO DAY EVALUATION:

Am /	Arm /	Algorithm / Procedure	Source Code	Program Execution	Viva -	
Marks	Preparation	Performance in the Lab	Calculations and Graphs	Results and Error Analysis	Vace	Total
Max. Marks	4	4	4	4	4	20
Obtained	4	4	4	4	4	20

Signature of Faculty

START WRITING FROM HERE:

HODAL ANALYSIS

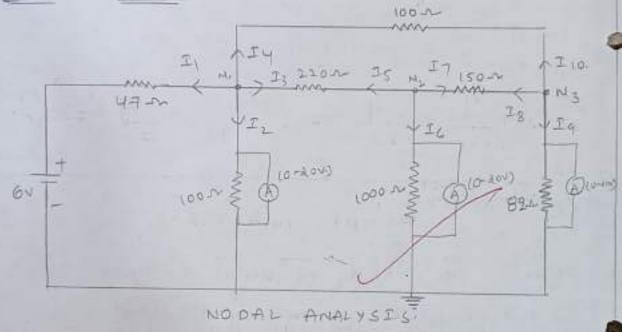
Aim: The study of nodal analysis is the objective of this exercise specifically its usage in multi-source. DC-circuits. Its application in finding circuit node voltages: will be invistigated.

Apparatus:

- D Resistors (1000-1, 1001-, 471, 1001, 2201-, 1501
- 1 voltmeter (6V)
- (3) Regulated power supply units
- (9) Bread Board (9) Connecting wires

Theory: In electric circuit analysis, Nodal analysis, node - voltage analysis (or) the branch cultent method is a method of determining the voltage (potential difference) between "nodes" (points where the elements or branches connect) in an electrical circuit in terms of the branch cultents.

circuit diagram:

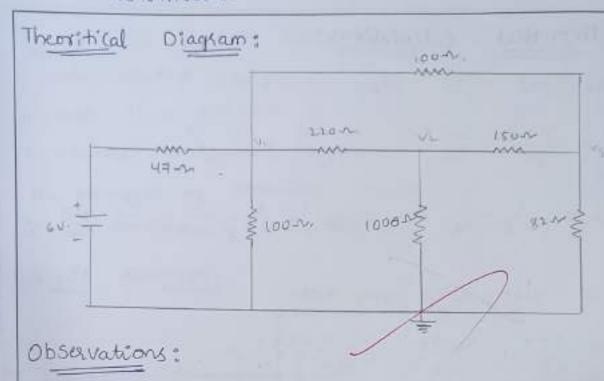


Procedure: 1 Connect the circuit diagram as shown in figure.

- @ switch on the supply to RPS.
- 3 Apply the voltage and note the voltmeter seadings.
- @ Gradually increase the supply voltage in steps.
- 3) Note the readings of voltnetch.
- @ verity with the theoritical results obtained with practice results. 2/4

Theoritical calculations:

Adving Q , Q and Q , we get



Applied voltage	Node An	alysis (v.)	Node A		Made voltage		
The state of the s	Theoritical		Theoritical		Theoritked		
6V	3.42	3.43	2-24	2.21	(-17	1.70	

Precautions &

- O check for proper connection before switching
- 1 Make sure of proper Color coding of
- 3) The terminal of the resistance should be properly connect.

Result 5 Modal analysis is verified.

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