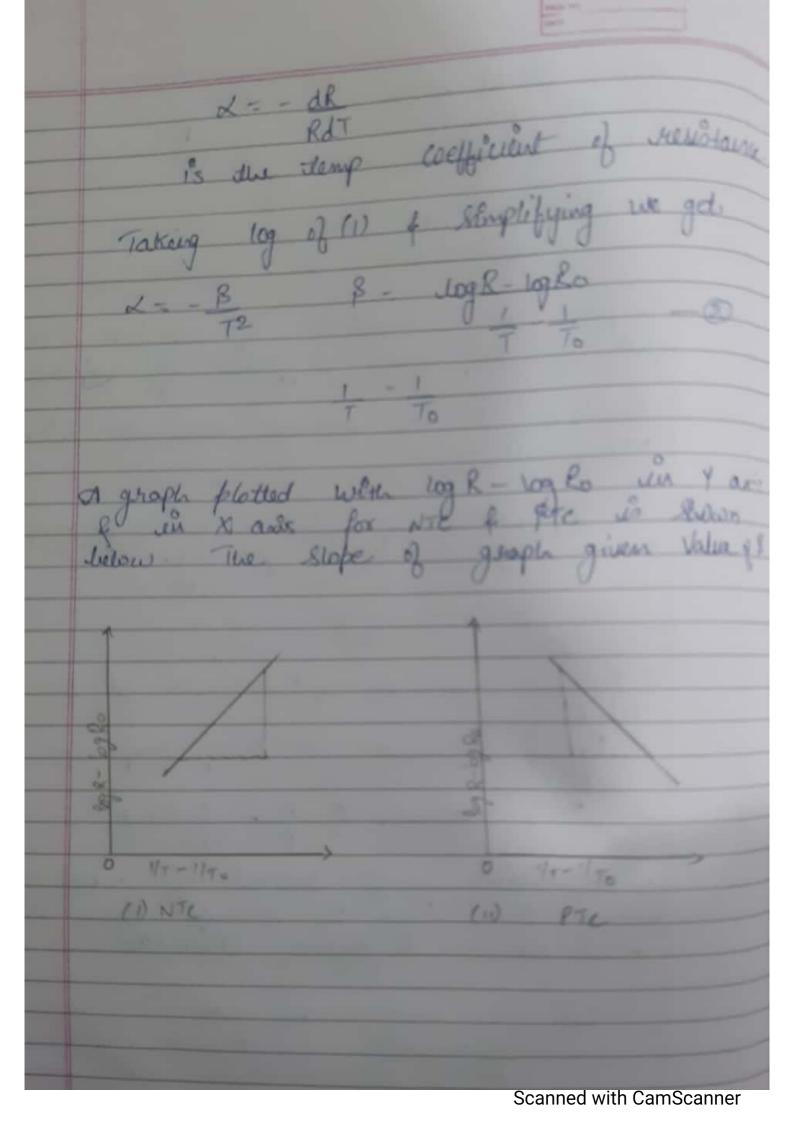
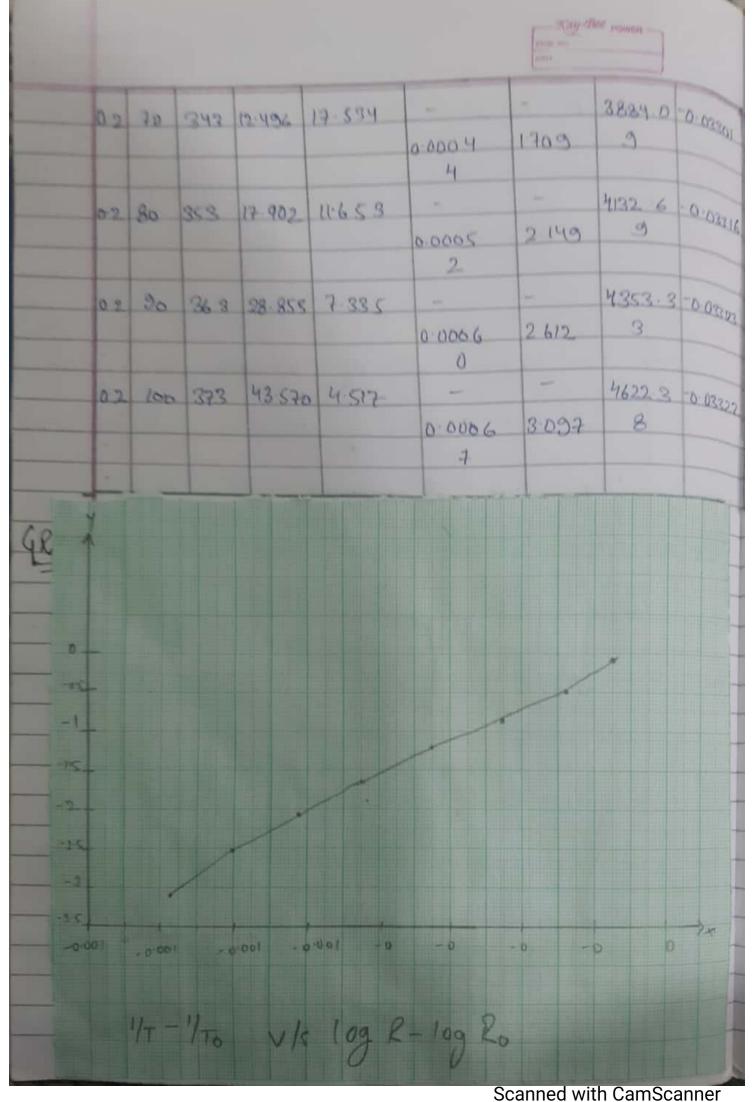
NAME- PHACES Verma fp. no - 19102165 Subject - Physics PHYSICS VLAB EXPERIMENT-1 CHARACTERISTICS OF THERMISTOR por: To plot the characteristics of thermistor of hence found the temperature coefficient of resistance. Composent Theymister, Rheostat, Voltmeter, Multimeler, Dil bath arrangement The dependance of resistance on temperature uses an en approximated by following tegn. R=Roe (+ to) R is the resistance of thermistor at the temp T(in K) Ro is resistance at given temperature B is material specific - constant The material specific - constant of a NTC thest-onistor is calculated by formula shown below of is expressed in degrees Kelvin (°K). Diff. (1) W8+ T we got

dR = - RB

dT 72



	Pany-Dec romes -							min —
a	ascuit Diagram :							
				+ (m)	-			
					-			
		干			3			
+					-			
+								
AT	no .	least	Count	b	Vortwel	ler Ps	-	D-1V
	6 1	/	1 n 4	1	4		0	
	The l	east (Must	0) 0	minele	n d	0 =1	0.01 nu
_			1	cat of a	ð	- 9	Co	
	11.0	Human	7/1/1/1	Dem lille	4//		3	
	The y	400m	25	peraluri 1 dea 4	00 (11	(Sius)		
	Ro =	1000	25 Ohr	l degre	as Co	(saus)		
	Ro =							
	Temp	Temp	Current					alpha =
Vella	Temp.	Temp	turent (And)	Resistan			beta	etal.
	Temp.	Temp	Current	Resistan	4-17-0	loge-loge	beta	alpha = beta /T2 - 0 03633
Vella	Temp.	Temp	turent (And)	Resistan			beta	etal.
Vella	Temp.	Temp	turent (And)	Resistana 84.36	4-17-0	loge-loge	beta	etal.
Neille V	Temp.	Temp K 303	(urrent 1(n/A) 2.7420	Resistana 84.36	4-17-0	loge-loge	beta 3340	- 0-03633
Neille V	Temp.	Temp K 303	(urrent 1(n/A) 2.7420	Resistana 84.36	4-17-0 0.0000 5	logl-logle 0.168	beta 3340	- 0-03633
Neille V	Temp.	Temp K 303	(ma) 2.7420 4.1634	Resistana 84.36	17-17-0 0-0000 5	logl-logle 0.168	beta 3340	- 0-03633
Neith	Temp C 30	Temp K 303	(ma) 2.7420 4.1634	Resistana 84.36	17-17-0 0-0000 5	logl-logle 0.168	3340 3225	-0.03633
Neith	Temp C 30	Temp K 303	(ma) 2.7420 4.1634	Resistana 84.36	17-17-0 0-0000 5 	0.168 0.518	3340 3225	-0.03633
Neith	Temp C 30	Temp K 303	(ma) 2.7420 4.1634	Resistana 84.36	17-17-0 0.0000 5 - 0.0001 6	0.168 0.518	3340 3225	-0.03633
Netto V	7emp. C 30	Temp K 303 313	(ma) 2.7420 4.1634	Resistana 84.56 59.47	17-17-0 0.0000 5 - 0.0001 6	0.168 0.168	3340 3225	-0.03633
Netto V	7emp. C 30	Temp K 303 313	(ma) 2.7420 4.1634	Resistana 84.56 59.47	17-1/70 0.0000 5 - 0.0001 6	0.168 0.168	3340 3225	-0.03633



Posité une material constant of thermistor, 8=38(12) Brecaution 1. Temperature may not be taken at regular 2. Check the connections properly.

8. Note down the readings properly with Correct units etc Sources 1. units may not be taken properly.

2 Essor 2. Calculations of readings may be incorrect

3. use Calculators for doing Calculation etc.