	Date
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	Aim !-
	T 11
	To determine the orelative humidity by wet bulk depression method.
	depression method.
	Référence:
	Requirement:
	Wet bulb and day bulb thermometers (mansion's type), Humidity Chart (Psychonometers chart),
	Humidity Chart (Psychon metore chart),
	Water.
	Theory !-
	The same of the sa
	Water exist in the our at all tempt. It is
	always in the vapour from. The oughtity of the
	air is the heat contained in water vapour. Water
	Vapour would condense when it comes in contact
	with any material at lower tempt. The quantity
	of the heat offered by the atmosphere is depends
	upon these evaporations.
	heat help Debrevious = Drug bulk temperation a vel 4. 11
	Wet bulb Depression = Doy bulb temperature - wet bulb temperature.
	Teacher's Signature
	The state of the s

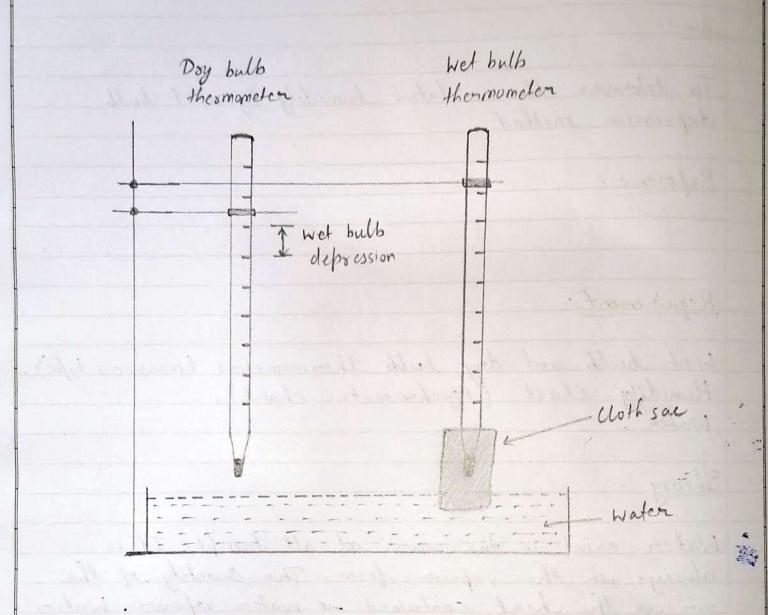


Fig > Arriangement of the determination of wel bulb depression by dry bulb and wel bulb thermometer.

(Monsion's type).

		Pate
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	with the help of the wet bulb depoents provided it is possible to determine the relative humidity.	exact -1. of
	Procedure:	
i)	Assigne the wet and dry bulb thermomet thermometer is exposed to the air (day thermometer) and the bulb of the sec a cloth sac. (wet bulb thermometer).	end with
	Place water in the Plastic container, and sac is diffed into it. So that by capill the dosen water will reach the bulb. bulb thermometer and wet the bulb.	ary action of the wet
iii	Carefully watch the readings in both the	thermometer.
	The reading of the wet bulb thermometer is as it is in direct contact with moisture a	
	After sometime the reading in the wet but reacher an equinostant tempt and note greating.	
vi)	Simultaneosly note down the day bulb les	nft.
yii)	Take 2 more needing after a time interv	al of 5 min.
	Teacher's Signature	

## Observation and Calculations

	S.No.	Condition.	Dog bulb temperature				08 T (°F)	Wet Point. Temperature				WB. T (F)	well bulb depre- ssion	.RG
1			1	2	3	AV		1	2	3	AV		100 BW	
	1.4	Inside Lab		N.			1	13 S	T T	\		- 3		
	2.	Outside Lab		TENES		ANL					•			
	3.	AC cold soom	Team	Fig.	1-13 1-13 1-13									N (1)

Table: - Determination of Relative Humidity.

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الزنالا	Record the values and find out the difference b/w the wet bulb and day bulb tempt.
ix)	This value is called as the wet bulb depression.
<u>*</u> /	After calculating the wet bulb depression the
	After calculating the wet bulb depression the relative humidity can be found directly from table provided.
	provided.
xi)	Locate the reading of doy bulb and wet bulb depression value and the intersection of two columns read the %
	value and the intersection of two columns read the %
	of the relative humidity.
(iix	The same experiment is refeated in the open air ontside the lab and in an air conditioned soom.
	Result:
	The relative humidity of air at different condition
	is determined. It is found that the relative humidity
	is in the order of
	>
	Teacher's Signature