VIDYASAGAR METROPOLITAN COLLEGE

PRACTICAL EXAMINATION

PAPER-CC6

Full Marks: 30 Time: 2hr

	Answer Any Five Questions	
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1.	(a) What do you mean by Draper point? Is it related with material's properties?	
	(b) What are the processes of heat transfer? What is the relation between radiated heat between the processes of the processe	bу
	black body and its temperature? (3+	3)
2.	(a) Why does a solid expands due to increase in temperature? What are the difference	es
	between a Telescope and Microscope?	
	(b) What do you mean by vernier constant and screw pitch? How does these affect the	he
	accuracy of the readings? (3+3)	3)
3.	(a) What is the definition of a thermocouple? What do you mean by neutral temperature	oi
	a thermocouple?	
	(b)Classically describe: How Thermo emf generates in a Thermocouple? (3+3)	3)
4.	(a) What are differences between Ballistic and dead beat galvanometer? Write down tw	VC
	types of thermocouple, used in high-temperature and low-temperature measurement?	
	(b) How a thermocouple can be used to measure temperature? (3+	3)
5.	(a) What do you mean by boiling point and melting point? : comment on entropy regarding	ng
	this.	
	(b)Draw figure of an operational amplifier and write down the characteristic of	it
	(3+3)	
6.	(a)Define thermal conductivity. What do you mean by Bedford's correction in therm	ıa

- conductivity measurement?
 - (b) What do you mean by 'thermal equilibrium' and 'steady state'? (3+3)
- 7. (a)Briefly explain: platinum resistance may be used to measure temperature.
 - (b)How potentiometer may be used to estimate an unknown resistance? (3+3)