THERMOELECTRIC EFFECT||

CHAPTER15||

SAMPLE QUESTIONS||

1.A. Define thermoelectric effect.
B. Discuss the variation of thermo emf in a thermocouple with change in temperature.
C. The temperature of the cold junction of a thermocouple is 10ºc and the neutral temperature is 270ºc. Calculate the temperature of inversion.

2.A. Write the cause of electric current in thermoelectricity.
B. Distinguish between Seebeck effect and Peltier effect.
C. Thermo emf (E) of a Cu-Fe thermocouple varies with temperature (Θ) of the hot junction (cold junction at Θºc as, $E(\mu V)=14\Theta-0.02\Theta^2$. Determine neutral temperature and temperature of inversion.

3.A. What is a thermocouple?
B. Describe construction and working of a thermopile.
C. Generally Sb-Bi thermocouple is preferred in all experimental work,why?

4.A. Define neutral temperature and temperature of inversion.
B. What is Thomson's effect?
C. On which factors thermo emf depend?
D. On which factors temperature of inversion depend?