# SEMESTER -V

PHYSICS - 6B

# MOST IMP ESSAY QUESTIONS

### UNIT-1:

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- What is Toule-Kelvin effect? Derive an expression for Toule-Kelvin coefficient?
- What is Toule Thomson effect (or) Toule -Kelvin effect? Describe he porous plug experiment and indicate the results! Obtain an expression for the cooling produced when a gas suffers Toule-Thomson effect?

## UNIT-2:

1) What is a Thermocouple and give its working Poureiples & Applications

## UNIT-3:

- 1) What is Referigeration cycle? Explain with block diagram.
- 2) What is vapour absorption refrigeration system?

### UNIT-4:

- 1) What are the types of dir Compressors?
- 2) What is Evaporator and how it works

### UNIT-6:

- D'What is safe storage temperatures for biological materials.
- 2) What is freezing of food?

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# most imp short questions

### UNITT-1:

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- 1) Explain Toule-Kelvin effect
- 2) What was the applications of super conductors?
- 3) What is superconductivity

### UNIT-2:

of correction and 1 Explain the concepts thermometer. calibration in gas

- (P) What is refrigerant and how does it help your die Conditioner?
- 2) Explain about ideal reprigerant.

- 1) What is coefficient of performance of Referigerator.
- 2) What is Energy Efficiency Ratio (EER),

## UNIT-6:

- 1) Explain Working of Water Cooler?
- 2) Uses of Cold storage?

# VERY SHORT QUESTAN

### UNIT:

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- superconductivity explain? (1) What is
- adiabtic demagnetization? 2) Why is

### UNIT-2:

- a magnetic thermometer work (1) How does is used for? and what
- resistance temperature? (2) What is

## UNIT-3:

- 1) What do you mean by natural refrigeration
- 2) What is meant by vapour compression referención system?

- 1) What is performance coefficient? 2) What is meant by Energy Efficiency Ratio?

# UNIT-5:

- 1) What is food preservation and give its method?
  - 2) What does cryogenic treatment do for metal?