

INTERNAL TEST

Name of the Paper : Thermal Physics
Name of Course : B. Sc. (H) Physics
Semester : III
Duration : 1 Hours

Maximum Marks : 12

Instruction for Candidates

1. Question No. 1 is compulsory
2. Attempt any two questions in others.

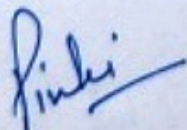
1. Attempt any two question : (2×3=6)

- a) Derive the expression for work done during an isothermal process.
- b) Explain P-V diagram of a Carnot's cycle.
- c) Explain Entropy for a perfect gas.

2. Explain thermodynamic potentials. (3)

3. Prove that entropy change during a reversible process is constant. (3)

4. Derive the ratio of adiabatic elasticity and isothermal elasticity. (3)



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