

ASSIGNMENT

Name of the Paper : Thermal Physics

Name of Course : B. Sc. (H) Physics

Semester : III

Submission Date: 17/10/2023 (9:00AM)

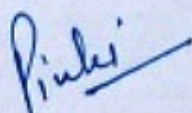
Maximum Marks : 12

Instruction for Candidates

1. Question No. 1 to 5 for Roll No. 22/19001 to 22/19030.
2. Question No. 6 to 10 for Roll No. 22/19031 to 22/19060.

Explain:

1. Deviation from the ideal gas equation.
2. Andrew's Experiments on CO_2 gas.
3. Virial equation.
4. Continuity of liquid and gaseous states.
5. Boyle temperature.
6. Van der waals equation of state for real gases.
7. Comparison with experimental curves: P-V diagrams.
8. Value of critical constants.
9. Law of corresponding states.
10. Free Adiabatic Expansion of a perfect gas.



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