

PHYSICS

B.Sc Part-I (H) Paper-II Gr-A By :- Dr. Mirza Abbas Hussain

Work for Home

All Students of B.Sc, Part-I Physics (Hons) 2019-20 & promoted student are directed to complete their home, work for Physics Paper-II Heat i.e complete the answer of following question and sent it with name or roll no. on my Email Id mir.abbas.hu@gmail.com. or my Whatsapp no. 9431494003 for Correction.

- (i) Deduce Vander Waal's equation of State for imperfect gas from Virial theorem.*
- (ii) What do you mean by transport phenomena of gas? On the basis of Kinetic Theory of gas derive an expression for the coefficient of Viscosity of a gas. Explain how does viscosity depend upon the temperature.*
- (iii) What is degree of freedom? State and deduce the Law of equipartition of energy. Show how can the law to calculate $\gamma = c_p/c_v$ for monoatomic gas diatomic gas and triatomic gas.*
- (iv) What do you mean by coefficient of thermal conductivity. Give the Mathematical investigation of periodic flow of heat in a metal rod.*

Note : Any question answers by the students may ask on my personal What's no. 9431494003 instead of group What's no. from 10:30am to 3:00 PM. Using Video Calling is best for you.

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