

Physics Sem-III Internal Exam-2021

Core-V (Mathematical physics)

* Answer any three questions:-

- Q1. Discuss Fourier co-efficients?
- Q2. Give Expression of integrals in terms of Gamma functions?
- Q3. Write short notes on systematic errors?
- Q4. Explain Laplace's equation in problems of rectangular.

Core-VI (Thermal physics)

* Answer any three questions:-

- Q1. Discuss zeroth law of thermodynamics?
- Q2. Explain Carnot's cycle?
- Q3. Write short notes on Gibbs free energy?
- Q4. Discuss Clausius theorem?

Core-VII (Analog systems and application)

- Q1. Derivation of Richardson's formula?
- Q2. Discuss P and N-type semiconductors?
- Q3. Write short notes on Wien bridge oscillator?
- Q4. Discuss Zener diode?