

Semester - V Internal Exam-2021
Physics-core-11 Page (01)

Quantum mechanics and application

Answer Any two question:

- Q1. Discuss postulates of quantum mechanics?
- Q2. Derive Stern-Gerlach experiment?
- Q3. Discuss Pauli's exclusion principle?
- Q4. Write concept of symmetric and antisymmetric wave function?

Core-12 Solid States Physics

- Q1. Discuss Bragg's law?
- Q2. Explain Einstein theories of specific heat of solid?
- Q3. Explain Debye theories of specific heat of solid?
- Q4. Discuss N and P-type semiconductor

DSE-I (Physics of devices and instruments)

Answer any two question?

Q1. Derive block diagram of power supply?

Q2. Discuss qualitative idea of C and L-filter's?

Q3. Write concept of introduction to communication system?

DSE-II (Experimental techniques)

Q1. What is electromagnetic interference?

Q2. Explain first and second order reaction?

Q3. Discuss linear position transducer?