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Sub-Electronics Paper-CC-4 Sem-2

Sample Question Papers

( Short answer type Questions)

1. Expain De Broglie waves .
2. What are Eign values and Eign functions ?
3. Define Torsional Rigidity.
4. State and Explain Second Law of Thermodynamics.
5. Distinguish between Dia, Para, and Ferromagnetic substances.

( Long answer type questions)

1. what is Compton’s Effect ? Derive the expression for Compton shift .
2. Explain Kroning Penny Modal and development of band structure of solids .
3. What is Hook’s law and define the different elastic constant of a substance ?
4. Derive Debey’s Specific heat of Gas and discuss it .
5. What is thermoelectricity? Give seeback and Peltier effect ?
6. Discuss electrical conductivity of solids and derive Ohm’s Law.