

CL30_Q1. Explain the terms (i) Periodic potential (ii) Bloch function and (iii) Effective mass.

CL30_Q2. Outline the Kronig Penny Model to describe the motion of electrons in a metal and discuss how the band structure evolves from this model.

CL30_Q3. What is Bloch function and how is it different from the free electron wave function?

CL30_Q4. How does the potential energy of an electron vary in an infinite one dimensional crystal and how this potential is represented in Kronig-Penny model?

CL30_Q5. What is crystal momentum? Is it a conserved quantity?

CL30_Q6. Describe the nature of potential experienced by valence electrons according to Kronig –Penny model. How does it affect the wave function of electron?