

Course Code: 2MSCP3  
Course: Solid State Physics  
Credit: 3  
Last Submission Date: October 31 (for January Session)  
April 30, (for July session)

Max. Marks:-30

Min. Marks:-11

Note:-attempt all questions.

- Que.1 Describe in detail drude model.
- Que.2 What is peltier co- efficient? Explain it.
- Que.3 What is bloch theorem? Prove it.
- Que.4 Discuss corning penny model for the energy band structure of solids. What are its consequences?
- Que.5 Explain metal- insulator transition.
- Que.6 Discuss about electron- interaction.
- Que.7 Explain the BCS theory of superconductivity.
- Que.8 Derive the London cautions.