Guidelines for

BSc Physical Science SEM VI 2021-22

Solidstate Physics Paper

1. Students should have clarity of structure of crystal with miller indices.
2. Students should be able to relate vibrations of atoms with different theories of heat capacity.
3. Students can understand dielectric and magnetic properties very clearly
4. Concepts of band theory should be clear which can be applied to semiconductor Physics
5. Concepts of superconductivity can be related to practical aspects

Reference Books:

• Introduction to Solid State Physics, Charles Kittel, 8th Ed., 2004, Wiley India Pvt. Ltd.

• Elements of Solid State Physics, J.P. Srivastava, 2nd Ed., 2006, Prentice-Hall of India

• Introduction to Solids, Leonid V. Azaroff, 2004, Tata Mc-Graw Hill

• Solid State Physics, Neil W. Ashcroft and N. David Mermin, 1976, Cengage Learning

• Solid State Physics, Rita John, 2014, McGraw Hill • Solid State Physics, M.A. Wahab, 2011, Narosa Publications ------------------------------------------------------------------------------------