M.Sc. DEGREE EXAMINATION, EVEN SEMESTER 2021
II Year III Semester
Crystal Physics

Max.marks :25

Answer any **FIVE** questions $(5 \times 5 = 25)$ Marks

1. Derive the expression for critical free energy of formation of disc shaped nucleus.
2. Discuss the growth of crystals from gel using single diffusion method.
3. Write notes on FTIR Characterization.
4. Discuss about the construction of X ray diffractometer.
5. Explain the formation of hydrogen bonding with suitable examples.
6. Discuss in detail about Liquid phase epitaxy.
7. Explain the concept of reciprocal lattice. Derive Braggs law.