


DRAVIDIAN UNIVERSITY
Directorate of Distance Education (DDE)
KUPPAM – 517 426:: A.P.
Two year PG Examinations DDE
Course: I year Physics
Paper – III Elementary solid state physics
Question Paper for Assignment

Answer any **THREE** of the following **FIVE** Questions.

3x10=30

1. a) Explain Basis, Crystal Structure and primitive lattice cell?
b) Discuss the Crystal Structure of Diamond?
2. Explain the Sommerfeld model of its Consequences in terms of electron lattice interaction?
3. Explain Kronig – Penney model for electron moving in periodic potential fields?
4. a) Define intrinsic and extrinsic semiconductors?
b) Explain drift and diffusion charge carriers?
5. a) What is Meissner effect? Explain diamagnetic property of Super conductor?
b) Write application of Super conductor?