MMMD-103

M.E./M. Tech. I Semester

Examination, December 2012

Material Science

Time: Three Hours

Maximum Marks: 70

Note: Attempt any five questions. All questions carries equal marks.

Describe the following imperfections in detail with sketches

- 1) Zero dimensional

- iii) Two dimensional

Explain semiconductors in detail also explain with next sketches the following terms associated to semiconductors

- i) Intrinsic semiconductors
- ii) Extrinsic semiconductors
- iii) n-type crystal
- iv) p-type crystal



3. Explain the terms related to deformation of metals:-

- Strain hardening
- ii) Work hardening effect
- iii) Bauschinger effect iv) Griffith's theory

4. Explain in detail with the aid of sketch about the following

i) Formation of pearlite

