

## Section-5

Q. Ans: Solidification of Casting:-

- A metal in molten condition possesses high energy
- As the molten metal cools, it loses energy to form crystals
- Since heat loss is more rapid near the mold walls than any other place, the first metal crystallites called nuclei form here.
- Nuclei formed as above tend to grow at the second stage of solidification.
- The crystal growth occurs in a dendrite manner.

