

[illegible]

Max. Marks : 60

SECTION-B

2. Discuss the basic principle and working of 'LCD' type of output device.
3. What is a DNC machine? Discuss the different types of DNC machines.
4. What is CIMS? What are the different components of CIMS?
5. What is a part family? With the help of an example, explain the *Opitz* system used for part classification and coding in Group Technology.
6. Discuss the different factors that influence the design of a material handling system in any industry.

SECTION-C

7. Discuss the following types of solid modelling schemes:
 - (a) B-rep
 - (b) CSG
8. What is AGVS? Discuss in brief its different types.
9. What is automated storage / retrieval system? Discuss the different basic components that form the part of AS/RS system.

NOTE : Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC against the Student.