## M.Tech-2 CIM

Set-1

Full Marks: 70

Time: 3 hours

Answer any six questions including Q. No. 1

The figures in the right-hand margin indicate marks

- 1. Answer the following questions:  $2 \times 10^{-2}$ 
  - (a) What are the benefits for implemening CIM?
  - (b) Explain the role of cellular manufacturing.
  - (c) What are the benefits of DNC?
  - (d) Why machining centers are preferable?
  - (e) List the benefits of FMS.
  - (f) What do you mean by AGV?
  - (g) Explain OPTIZ coding system.
  - (h) What do you mean by Architecture of data base?

(Turn Over)

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(i)	Explain about the manufacturing enterprise
	wheel.

- (j) What are the different process planning systems are available?
- 2. (a) Describe the FMS layout configurations. How do you select material handling equipment for them?
  - (b) What is group technology? How are parts grouped into families?
- 3. Explain the methods of parts classification and coding.
- 4. What are the different factors that should be considered in selecting a suitable classification -and-coding system?
- 5. What is computer aided process planning?

  Explain the approaches used for computer

  aided process planning systems.

- 6. Explain the variant and generative computer aided process planning systems.
- 7. (a) Explain briefly about MAP/TOP.
  - (b) How Al techniques can be applied to computer aided process planning systems? 5
- 5 8. (a) What are the softwares to be applied to CIM? Explain briefly.
  - (b) How the communication fundaments are helpful for data communication?

M.Tech - 2/CIM(Set-1)

(Continued) M.Tech-2/CIM(Set-1)

BE-100

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