

Total No. of Questions : 8]

SEAT No. :

P5447

[Total No. of Pages : 2

[5562]-309

M.E. (Production) (CAD/CAM and Mfg. and Automation)

COMPUTER INTEGRATED MANUFACTURING

(2017 Pattern) (Semester - II)

Time : 3 Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) Attempt Q1 or Q2, Q3 or Q4 and Q5 or Q6.
- 2) Q7 and Q8 are compulsory.
- 3) Figures to the right indicate full marks.
- 4) Draw neat self-explanatory sketches wherever necessary.
- 5) Use of calculator is allowed.
- 6) Assume suitable data, if necessary.

- Q1) Describe application of the CIM in the case of
- a) Job shop production,
 - b) Mass Production? What differences do you find in these two? [5]

OR

- Q2) What makes manufacturing engineer more competitive in the global context? [5]

- Q3) How can you accomplish database requirements of CIM? Explain. [5]

OR

- Q4) Which are the methods of organizing database? Describe. [5]

- Q5) Describe the principle of an automated storage and retrieval system used in FMS. [7]

OR

- Q6) Classify robots with suitable sketches and explain. [7]

- Q7) a) What are the components of small local area network in CIM setup? Explain. [8]
- b) Describe the three basic network topologies. [7]

P.T.O.

Q8) Write short notes on any three :

[18]

- a) Opitz coding system
- b) Robotic inspection
- c) GKS implementation in a CAD workstation
- d) AGV in CIM

