Totalno. ofpages :1   Roll No._____

B.Tech (Mechanical Engg-Evening)   7th SEMESTER

END SEMESTER EXAMINATION(Supplementary)   (Feb 2019)

CME-401 FLEXIBLE MANUFACTURING SYSTEMS

Time : 180 mins.   Max. Marks: 40

Note:-Attempt any FIVE questions.Assume missing data , if any

1.(a) Explain NC, CNC and DNC system.   04

(b) Explain with example various APT codes used in Part programming. 04

2.(a) Explain with diagram Jointed Arm Coordinate robot.   04

(b) Explain the necessity and implementation of Flexible Manufacturing System in industries.   04

4.(a)Explain Sequential and Concurrent Engineering.   04

(b) What is Automated assembly system? Explain with diagram.   04

5.(a) Explain (i) Carousel storage system (ii) in-process storage system used in FMS industries.   04

(b) Explain the advantages and limitations of use of AGVs.   04

6.(a) What do you mean by Experts systems? Explain with example. 04

(b) Define CIM. Write a note on CIM.   04

OR

(b) Explain different FMS layouts.   04