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Roll No

MMCM-302(A) (Old)

M.E./M.Tech., III Semester

Examination, November 2018

Flexible Competitive Manufacturing System

(Elective-II)

Time : Three Hours

Maximum Marks: 70

- Note: i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) What is the advantage of a flexible manufacturing system?
b) Describe the basic elements of an FMS.
2. a) Explain Numeric control of Automated system. What are its advantages?
b) Discuss different types of sensory technology used in FMS.
3. a) What do you mean by Group Technology?
b) Write a note on machine cell design.
4. a) Explain the logical sequence control in automated systems.
b) What is fuzzy logic? How it is useful in CMS?
5. a) What is a transfer function? Explain it with a neat sketch.
b) What is interpolation? Explain it.

6. Write a detailed note on types of Computer Softwares used in FMS.
7. a) What are the characteristics of JIT?
b) What is a Kanban system? Explain.
8. Write short notes on any two :
 - a) Advantage of industrial robot
 - b) Hierarchy of Computer Control
 - c) Lean manufacturing
