Code: R7410307

IV B.Tech I Semester(R07) Supplementary Examinations, May/June 2011 MECHATRONICS

(Mechanical Engineering)

Time: 3 hours Max Marks: 80

Answer any FIVE questions All questions carry equal marks

- 1. Discuss the applications of mechatronics specific to a FMS.
- 2. Discuss the capabilities of digital signal processing.
- 3. Explain the relative advantages and disadvantages of pneumatic actuation systems over hydraulic actuation systems.
- 4. Discuss various protection schemes available in electronic interface subsystems
- 5. Explain the applications of variable frequency drives.
- 6. What are microcontrollers? Explain the general form of microcontrollers with neat sketche.
- 7. What are the applications of programmable logic controller?

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8. Explain various operations performed by programmable motion controllers. Explain.
