

R07**Code: R7410307**

B.Tech IV Year I Semester (R07) Supplementary Examinations, May 2013

MECHATRONICS
(Mechanical Engineering)

Time: 3 hours

Max. Marks: 80

Answer any FIVE questions
All questions carry equal marks

1. Write short notes on:
 - (a) Flexible manufacturing system.
 - (b) Computer integrated manufacturing.
2. Why signal conditioning elements are necessary? Explain what are the applications of signal conditioning elements.
3. Compare hydraulic & pneumatic systems.
4. Discuss about the circuit breakers and over current sensing units.
5. Explain with neat sketches DC brushed motors and DC brushless motors.
6. Explain in detail about 8051 micro controller and its features.
7. Define PLC controllers discuss the selection of PLC.
8. Distinguish between P, PI and PID controller.
