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Roll No

MEDC-102

M.E./M.Tech., I Semester

Examination, December 2016

Micro Controller System Design

Time: Three Hours

Maximum Marks: 70

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Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- 1. a) Give a brief review of 8-bit and 16-bit microprocessor.
 - b) What are various interfacing techniques? Explain.
- 2. a) Give architecture of 8051 micro-controller.
 - b) Explain addressing modes of 8051.
- 3. a) Explain register structure of 8051.
 - b) Describe interrupts available in 8051.
- 4. a) Explain modular approach in software development.
 - b) Discuss recursion and debugging.
- 5. a) Explain application of micro-controller in data acquisition.
 - b) Describe embedded controllers.

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- a) Describe DSP processor architecture.
 - b) Discuss sample design using TI-DSP
- a) Explain instruction set of 8051.
 - b) Discuss memory mapping in 8051.
- Write short notes on any two of the following:
 - a) Program and data memory
 - b) Programming in 8051
 - c) Object oriented programming
 - d) Process control
 - e) Design using micro-controller in data acquisition

876