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MEDC-102

M.E./M.Tech. I Semester

Examination, December 2012

Micro Controller System Design

Time : Three Hours

Maximum Marks : 70

Note: 1) Attempt all five questions.

2) Section A is compulsory. Attempt any one from b&c.

1. a) Discuss register organization of 16 bit microprocessor.

b) Explain interfacing techniques for supporting of 8 bit and 16 bit microprocessor chips.

Or

c) Draw and describe architecture of 8086 microprocessor.

2. a) Discuss architecture of INTEL-8751 for single chip micro controller.

b) Describe interrupt handling timing and serial I/o.

Or

c) Explain memory mapping and instruction set for 8051.

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3. a) Explain recursion and debugging with proper example.

b) Write importances and applications of software development modular approach.

Or

c) Explain object oriented interfacing and programming.

4. a) Describe ATMEL 89C52 with applications.

b) What do you mean by embedded system? Explain embedded controllers.

Or

c) Discuss design aspects and application of micro-controller in Data acquisition system.

5. a) Differentiate between TI and DSP. Explain DSP processor architecture.

b) Discuss integrated software development environment.

Or

c) Explain addressing and Expanded modes of MOTOROLA 68HC II architecture.

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