Total No. of Questions: 8]

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MEDC-102

M.E./M.Tech. I Semester

Examination, December 2017

Micro Controller System Design

Time: Three Hours

Maximum Marks: 70

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Note: i) Attempt any five questions.

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ii) All questions carry equal marks

- With the help of block dragram discuss the architecture of 16-bit microprocessor.
 - Explain briefly about single chip microcomputers.
- Differentiate between 8 bit microprocessor and 16 bit microprocessor.
 - b) Explain the architectural design of 8051 microcontroller.
- Discuss about the addressing modes of 8051 microcontroller.
 - Explain about the interrupt handling in microcontroller.
- Discuss the concept of memory mapping. Also explain how it is down.
 - b) Discuss about integrated software development environment.

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Discuss about object oriented interfacing and programming.

- Explain about Recursion and Debugging.
- Discuss the architecture of PIC microcontroller.
 - Discuss the design and application of microcontroller in data acquisition.
- 7. Discuss about DSP processor architecture and sample design using TI-DSP.
- 8. Write short notes any two of the following:
 - 68HC11 architecture
 - Embedded controller
 - Process control

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