JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD
B. Tech III Year II Semester Examinations, June - 2014
MICROPROCESSORS AND MICRO CONTROLLERS
(Common to EEE, ECE, EIE, ETM, ICE)

Time: 3 hours   Max. Marks: 75

Answer any five questions
All questions carry equal marks
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1.a) Compare 8085 and 8086 microprocessors.
  b) Draw the functional diagram of 8086 microprocessor and explain.

2.a) List out and explain instruction formats of 8086 microprocessor.
  b) Write an 8086 program to average two temperatures.

3.a) Explain how 8255 PPI is interfaced with 8086 microprocessor.
  b) Write ALP to interfacing stepper motor with Processor.

4.a) Explain about interrupt structure of 8086 microprocessor.
  b) Write a short note on vector interrupt table.

5.a) With neat diagram explain how 8251 USART interfacing with IEEE 488.
  b) Write short notes on serial communication standards.

6.a) Explain the architecture of 8051 micro controller with neat block diagram.
  b) Write an ALP for 8051 to find the sum of a series of 8-bit numbers.

7. Explain the interfacing of 7-segment display with 8051 microcontroller.

8.a) Write a short notes on AVR family architecture.
  b) Explain about the interrupt driven input output.

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