

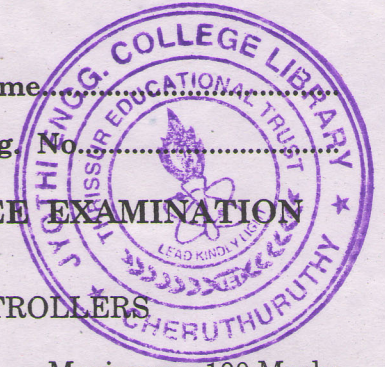
C 15286

Name.....

Reg. No.....

FOURTH SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION
DECEMBER 2010

EC/AI 2K 405 MICROPROCESSOR AND MICROCONTROLLERS



Time : Three Hours

Maximum : 100 Marks

- I. (a) Explain the INTA cycle and memory read cycle of 8086.
(b) Write a program to transfer a block of 10 data from one location to another.
(c) What are the methods of address decoding ? Give examples.
(d) Explain the mode 2 configuration of 8255.
(e) Explain about memory paging.
(f) Bring about the features of pentium and compare it with 8086 and 80386 processors.
(g) Explain RAM and ROM memory space of 80196.
(h) Explain about PSW, and serial port registers of 80196.

(8 × 5 = 40 marks)

- II. (a) Discuss in detail the addressing modes of 8086.

Or

- (b) Describe the block diagram of 8086.

- III. (a) Discuss in detail the working of 8279.

Or

- (b) Describe the different modes of operation of 8257.

- IV. (a) Describe the working of 80386 with the help of a block diagram.

Or

- (b) Explain in detail about architecture of pentium processor.

- V. (a) Discuss in detail the I/O interface of 80196.

Or

- (b) Explain the working of 80196 with the help of a figure.

(4 × 15 = 60 marks)