

IV B.Tech I Semester Supplementary Examinations, November 2005
MICROPROCESSORS & APPLICATIONS
(Mechanical Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Explain the CPU architecture of 8086 microprocessor. [10]
(b) Explain the features of 8085 micorprocessor. [6]
2. (a) Ennumerate data transfer instructions of 8086 depending on the addressing modes [8]
(b) Write an ALP to implement unpacked BCD addition and subtraction. [8]
3. (a) How procedures are used in assembly language programming of 8086. [6]
(b) Explain about interrupt sequence and interrupts of 8086. [10]
4. (a) What are string primitives. Describe them. [8]
(b) Explain interrupt priority management scheme of interrupt I/O. [8]
5. (a) Explain in detail about USART. [10]
(b) List various commands of 8272 floppy disk controller. [6]
6. (a) Explain various addressing modes of 8086 with examples. [10]
(b) Explain about assembly language instruction foramts for 8086. [6]
7. (a) Write short notes on macros. [6]
(b) Explain the fundamental I/O considerations in I/O programming. [10]
8. (a) What is key debouncing? Explain the operation of 8279 as kayboard. [10]
(b) Explain the features of 8255 PPI. along with the formats of control register. [6]
