

III B.Tech II Semester Supplementary Examinations, April/May 2005
MICROPROCESSOR & INTERFACING
(Common to Electronics & Communication Engineering and Electronics & Control Engineering)

Time: 3 hours

Max Marks: 70

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Explain the addressing modes used in 8085.
(b) What is meant by Pipelining?
(c) Explain the features of 8085.
2. (a) Explain the Bus Interfacing unit of 8086.
(b) Draw and explain the timing diagram of 8086 for write operation.
3. (a) Explain the following instructions with examples.
 - i. MOV
 - ii. XOR
 - iii. AAA
 - iv. LOOP
(b) Write an Assembly language program to find the parity of a 32 bit number.
4. (a) Explain the following Assembler Directives.
 - i. SEGMENT
 - ii. DQ
 - iii. EVEN
 - iv. ENDS
(b) Write an assembly language program to reverse a given string.
5. (a) Explain, How an interrupt is responded by 8086 with neat diagram?
(b) Explain ADC interfacing to 8086.
6. Explain the operation of 8251 with neat diagram
7. Explain the operation of 8237 with neat diagram.
8. Write short notes on:
 - (a) Programmed I/O, Interrupt I/O
 - (b) Transducers and Actuators
 - (c) RS232C
