

Library

Con. 5599-07.

B.E. (Elect) (sem. VII) (old)

15/12/07

Microprocessor & Applications

(OLD COURSE)

CD-6862

(3 Hours)

[ Total Marks : 100

Master

- N.B. (1) Question No. 1 is compulsory.  
 (2) Attempt any four questions out of the remaining six questions.  
 (3) Use any suitable assumptions if necessary.

1. (a) Explain the following instructions :— 10

(i) MOV A, B	(iv) SHLD
(ii) STA 2000H	(v) RAR
(iii) INR C	
- (b) Explain various addressing modes of 8085 microprocessor with suitable example. 10
2. (a) Draw and explain the timing diagram of the following instructions :— 10
  - (i) MOV A, M
  - (ii) MVI M, A
- (b) Explain the need of multiplexing and demultiplexing of the Address Bus and Address Data Bus. Give the technical diagram of demultiplexing. 10
3. (a) Explain the interrupt structure of 8085 microprocessors with its schematic diagram. 12
- (b) What is the use of SID and SOD line ? 5
4. Explain the architecture of 8085 microprocess with its schematic diagram. 20
5. Explain various modes of 8255 PPI with its schematic diagram. 20
6. (a) Write a program to add any three 8 bit numbers stored in consecutive memory locations and store the result in next consecutive location. 10
- (b) Explain various delay technique used in 8085 microprocessor. 10
7. (a) (i) Explain the difference between CALL and JUMP instruction. 5
- (ii) Explain the difference between Memory mapped I/O and I/O Mapped I/O. 5
- (b) Explain the working a microprocessor based Temperature Control System. Draw the interfacing diagram. 10

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