

August 2011

Bachelor of Computer Application (BCA) Examination  
VI Semester**Micro Processor and Assembly Language Programming**

Time : 3 Hours ]

[ Max. Marks : 50

**Note :** Attempt all five questions. Write answer of any two parts from each question.

1. (a) Explain various addressing modes of 8085 with examples.  
(b) Give the architecture diagram of 8085 microprocessor in details.  
(c) Write an assembly program for multiplication of two, eight bit data.
2. (a) Explain the Operand and Opcodes in instruction. Give explanation of each instruction set available in 8085 microprocessor.  
(b) Draw and explain 8085 programming model.  
(c) Find the output of the program given below and tell about registers and memory location status :  
LDA 2501 H  
CMA  
STA 2502 H  
HLT
3. (a) Determine the address of the control/ status register, I/O ports, and timer register in Figure 2.

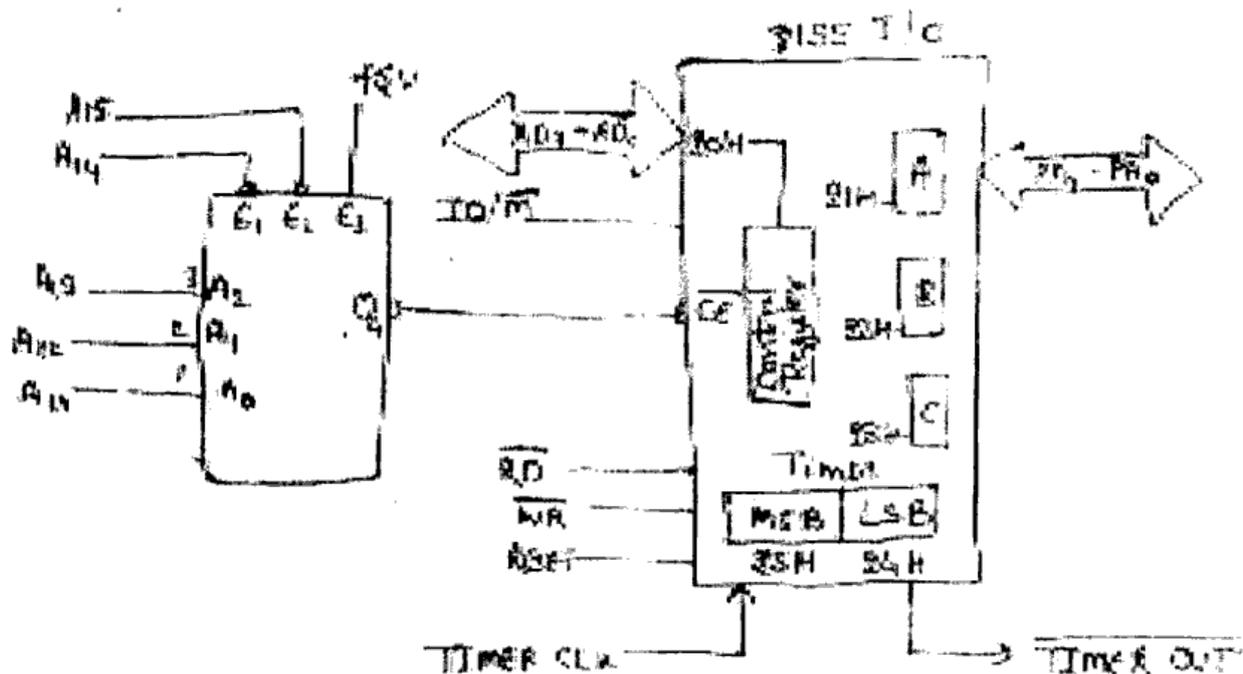
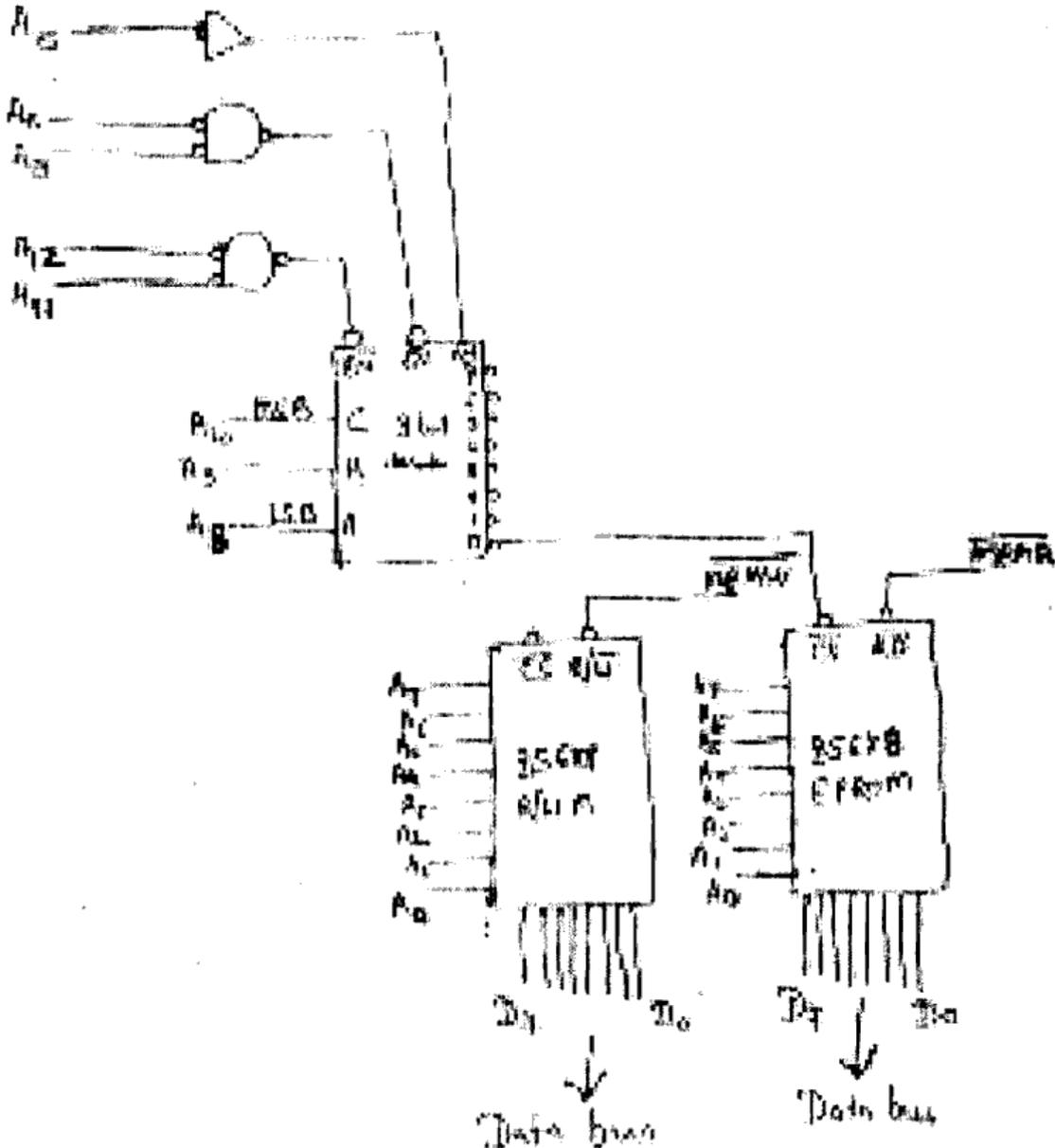


Figure 2

- (b) Explain the various modes of programmable peripheral interface.  
 (c) Explain keyboard controller 8279 interfacing with 8085.
4. (a) Explain the difference between the peripheral mapped and memory mapped I/O techniques.  
 (b) Figure 1 show the diagram of memory interface with the help of this diagram find the address range for E/W memory and EPROM and also explain the working of decoder here.



- (c) Explain the various control signals used with 8085 microprocessor.

Figure 1.

5. (a) Give basic difference between Microprocessor and Microcontroller.  
 (b) Explain all registers used with 8051 Microcontroller.  
 (c) Give the specified features of 8051 Microcontroller. (atleast 10)

\* \* \*