C5E360-50003
A55ignment-02

1D: 19101077

Ans. To The Q. No. 1

Dapt -1:

The mouse and the Graphics Tablet

is simple input device. so,

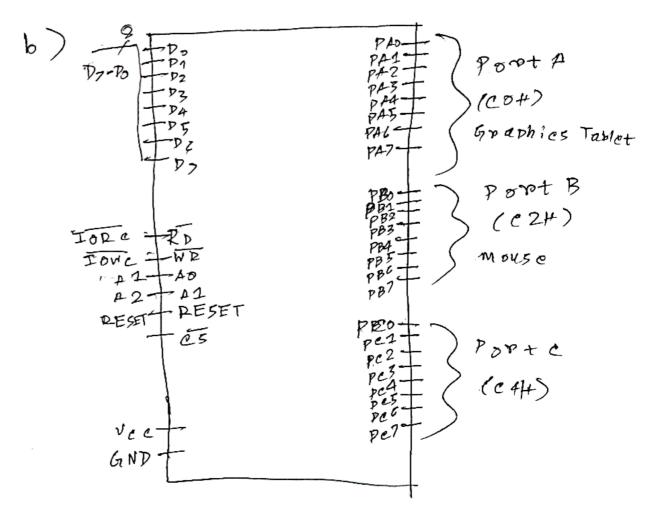
We reed simple I/O mode of

IC 82C55. Mode-1 is the I/O

mode of this Ic.for both port-18B.

To activave Port 4 and B the control word will be-

1	' D7	DC	D 5	D4	D3	22	D1	Do	1
	1	0	至	2	1	2	2	2	



Part-2;

I c \$2c55 is taking input

from the graphics tablet by

tapping a picture of the

graphic tablet is connected

with port -A.

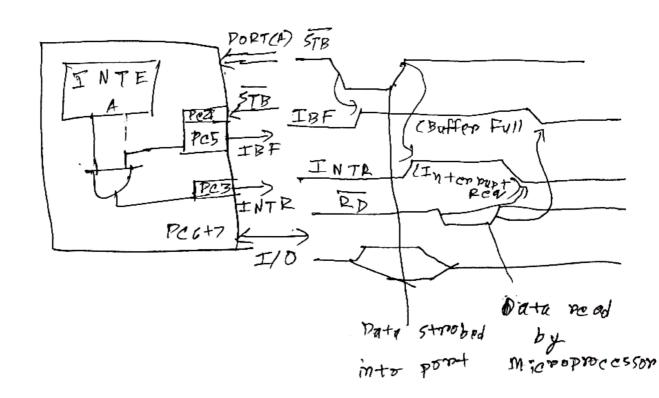
Port-7 is functioning as lateh
in put device, Here external
data stoped in the port until
the micropprocessor is ready.

STB > 2 The stored input 1.0205

data into the port to Later

on a o to 1 transition

b) mode-1 port-A: (Timing diagram)

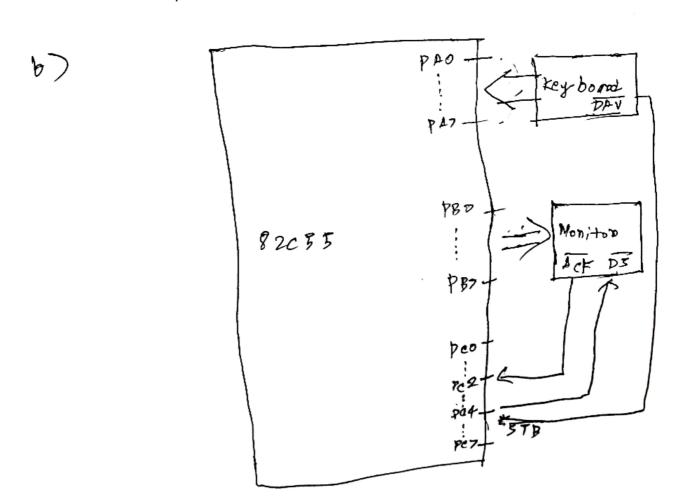


Ans. To The a. No. 2

and port B is connected with keyboard and port B is connected with monitor of the 82c55 Ic.

So the control bites,

	D7 \	DE	D 5	D4	D3	12	D1	DO	
j	1	0	1	1	1	0	ଚ	0	_



c) The 82C55 IC Will take input
if we presso the B> teg on
the keyboard

Step-1:

Post + Will function for input

device, Here Piner .5TBA

Will be given from the Keyboons

Step-2: In post A pin-5 IBF will

send signal to at 82css Ic to

block in put 30 that it doesn't

receive anymore data.

Step-3: 82 c55 Ie Will Sent INTRED
Signal to MPU for input from
poot c3

Step-4: After receving INTR =1 the MPU will send RD = & signal to 82 c 55 Ic to send input from MPU.

to send all date to MPU. After

receving data 82C55 Will assissed

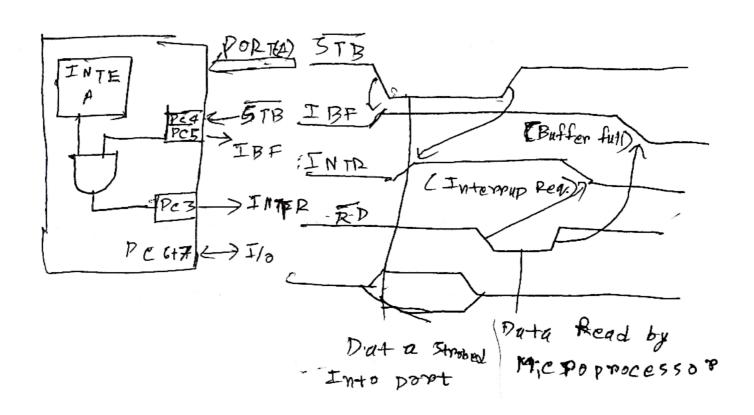
INTR = 0 to end data transfer.

3ter-6: MDV Will send RD = 1 to

82055 to confirm data transfer.

Step-7: 3.2 c55 send IBF =0 to stop taking data from the input device. Mode-1 Doot-A:

(Tim; no Diagram)



Directorises will give output for us to see the B' in the monitor.

Step-1: 1st the ACK signal will be sent signal to Fe 82c55

Step-2: OBF = 0 to give data

Output through pant-B. It will happend when the Ack = 1

THE PROCESSOR SO the external device will receptives the data big ACK signal.

Mode-1 PootB; (Timing diagrum)

