CSE 341

Final - exam

Fall '23

Name: Ashakuzzaman Odnee

ID : 20301268

Section: 01

Set :

## Ans to the QNo-2

(A) (400) = 2

1) instraction ocycle = 160 ns

= 6.25 MH 2

(ii) In this senanio 16 bit's and unaligned word word that in this case we need 2 cycle to complete this?

1 Bus cycle = 4 × 160 = 320

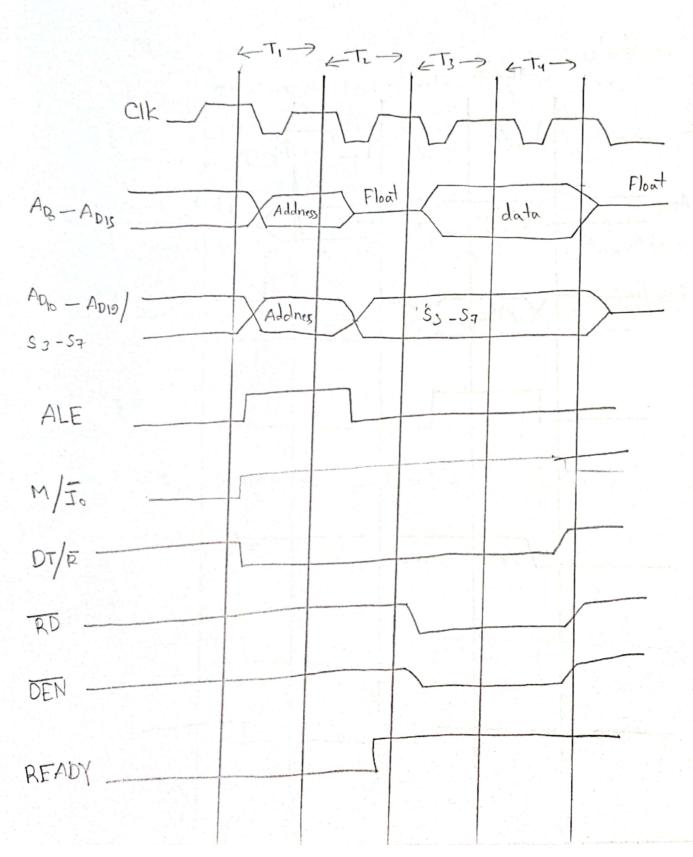
(iii)  $f = \frac{1}{160 \text{ M}}$   $= \frac{1}{160 \times 10^{5} / \times 10^{-9}}$  = 6.25 M + 2

about duck = 20.11

Siddy eyele | Ton + Topp

This is a nead and memony use

here



## Ceyp sit it por

80286 micho processon EM and MP

EM = processon execution emulation.

MP - Moniton processon enecution -

mp are allow to wait instraction to genarate a processor entention

and

EM= processon entention absence the emplainte of processon entention

by cpu.

```
Ans to the 9 No - 4
                                                                                                                                             teast - ast
                                                                                                                 (A)
        T = 3040 ns -> IR6 -> 5 mg T. = 12 T.
     T= 17 ms -> IRS -> 20 ms
     TRE = 5-02 = 39I 40 1491 2mit
   T= 27 ns -> I 27
                                                                                                                            Latro ] - 37ms = 1
        Ths / I DE ... Ish will sheet / 11
IRR^{0} = IRG^{0} = 24

IRR^{0} = IRG^{0} = 24

IRR^{0} = IRG^{0} = 4

IRR^{0} = 4

IR
                                                                                                    5449 = FE + FE -5T
```

$$T_{2} = 64 + 6 = 74$$

$$T_2 = 74 + 37 = 11175$$

Aften III hs IR6 will complatify served.

Lounge Is Ing Fo In In In In.

Ty

when a intenop a nowied of 5270 A DIE 14 ult rece through the IN Din. The prisonity of theo bin are I pop most priority the other and the alst lost priority cill be IRI.

though pin IRo, I ho will sine,

I SR = IS 26 = 1

to be han a donatal a made 50 internupt. 1300 Mb 21224 + 12 +1 9 Ea 4 6753 offe In Din. The 8-part out of I self IR, - 8 Mb Grino Iron - 8-2000 God I and wild IR3 -8 ghinong trofatales alt book wanto Ins - 8 111 be I Rg. T-012 60000 11 10 00 I 10 0 1 I 1 mas fen + & slave I I Cost t= 0 1 I = 11 1 = 7 total pIC3 3 I = 9 SII again ISBO I ISBO I often serving the infinipat arive

throat live all I now all some

(3)

D-0021 -40 I

Ansto the g No-3
wi XA [ANSO] war [iii alt of
1234 h, An this are invalied
Fon this will 1234 by is most and
memony address. That's why this
is invalid
(B)
Inom ii) ii) 2000 to Dni Anon this/ 15 I
In it) ii) wout on, Ano this 15 Is a addressing maping (Isoloted I/O) this case
use different imemory for the Ho
FFFFF Them FFFF T/0

Fon thois we use 4 ins bit byte In the iii] mor [1234h], Ax in this instraction we use memony mapped I TO MEST 11/100 sitt not FFFF I/O memony address. bilouri 21 (8) Frist case in weturisé l'à memony (Jeeloted 710) to fond I to. To nom this neason coe och accessionit to Anomis mov instraction.

Dineed memony aceccs

A LL of memory on goods of L

95 + 01 x 29 = A.9

1 09 2 dl

## Ans to the 9 No-I

Divisory growing assessing

1 kb of menony on occook oostfhil

(6)

INT = 33

 $33 \times 4 = (132)_{10} = (84)_{11}$ 

IP = 15 Ao h

CS = 1 A 02 h

P.A = es x lo + IP

= 135 eo h

(5)

1 B500

dataz 5Bh

1 B S C I

" = 6Fh

- barren about

Now

First byte = 50h

Second byte = 6Fh

可是 李月

4.11. 909

troposteri and mission of site

in Sobe cook,

19301 Indennupt in 8086 pin. WOW 1. bush Flog moin push neri 3. Clear TE 1a. postedes ten G. Fetch ISR pop ID pop neglica IRET

NATO ENLAS

09281

This is the diagran how intemport in 8086 winks.