Department of Electronics Engineering

CT2, ETU403 Microprocessor and its Interfacing, 6.3.2019

Name of Student:.... Registration No.

Every question carries 5 marks

- 1. Draw timing diagram of instruction MOV A.M.
- 2. Write subroutine to generate a delay of x ms (x is your roll No.)
- 3. Write an ALP to compare two numbers
- 4. Explain with example the execution of instructions PUSH and CALL

Time: 1Hr

Date: 09/03/2016

Class Test - II

Marks: 15

ETU403 Microprocessor and it's Interfacing

Solve any five (5)

Qu.1. "It becomes extremely important to preserve the lower order address byte every 3 time". Justify the statement and discuss the method to achieve this.

Qu.2. Enlist the various data transfer schemes in $8085\mu P$ and discuss the Interrupt driven 3 data transfer with flowichart.

Qu.3. In the given delay subroutine, calculate the amount of delay inserted, if $f_{osci} = 3MHz$; 3

LXI B,01EBh; 10 MVI D,FFh; 7 again: DCR D; up: JNZ Up; 10/7 DCX B;

> MOV A,C; ORA B;

JNZ Again; 10/7

RET ;

Qu. 4. Discuss how an instruction cycle progresses along each T-state for 'ADD B' instruction Qu.5. With an available memory chip of 4kB, expand the memory capacity upto 16kB, draw a 3

neat interfacing diagram.

(Qu.6. For a 8085µP system WAP to read the status of a switch connected to the SID line 3. and accordingly turn ON/OFF the LED connected to the SOD line. Draw the diagram.