Roll No....

National Institute of Technology, Delhi

Name of the Examination: B. Tech.

Mid-Semester Examination October, 2022

Branch

: EEE

Semester

: 5th

Title of the Course

: Microprocessor and its

Course Code : EEB 303

applications

Time: 1.5 Hours

Maximum Marks: 25

Note: Attempt any five questions.

All questions are compulsory. Q1.

1x5 = 5

- (a) Write down the difference between ALU and CPU?
- (b) What is the difference between machine and assembly language?
- (c) What is the type of instruction for MVI B, 4FH and JNZ 2070H.
- (d) Write down the one example for each two and three byte instructions.
- (e) What do you mean by arithmetic instructions and give one example?

Q2(a) Draw the structure of 8085 microprocessor with all component.

1x2.5=2.5

Q2(b) Write down the meaning of following instructions ADI 37H, INR M, DCR M, ANA R, CMP R

1x2.5=2.5

Q3(a). What is software and hardware model of 8085? Explain its working also.

1x2.5=2.5

Q3(b). Add the contents of the accumulator 93H and contents of register C – B7H.

1x2.5=2.5

Q4(a). What do you mean by assembler? Explain all types of it.

1x2=2

Q4(b). If the 8085 adds 87H and 79H, specify the contents of the accumulator and the status of 1x3 = 3

Q5(a). Implement the assembly language program for division and multiplication of two	
Q5(b). What is the control and status signals? Explain in table format.	1x3=3
	1x2=2
Q6(a). Explain the multiplexed address and data lines in terms of pin orientation.	
Q6(b). What do you mean by HOLD and HLDA?	1x3=3
	1x2=2