Department of Computer Science & Engineering
Motilal Nehru National Institute of Technology, Allahabad
\*Mid Sem. Examination (ODD-Semester) 2018-19\*

Class: MCA First Semester 2018-19  M.M.: 20 Subject: Digital Computer Organization(Code:CA31103) M. Hrs: One	& Half
Note: 1.ALL Questions are compulsory.  2.Write ALL parts of a question together in one attempt NOT here & there  3. Write to the point. Makes & State	
3. Write to the point. Make & State necessary assumptions. Q.No.1 (a) Both our text followed in Class detail Block diagram of Digital Computer. Compare the	m. (01)
(b)Define the following circuits with their one practical application: (i) Decoder (ii) Encoder (iii) Multiplexer (iv) Binary Counters (v) Flip-Flop	(02)
(c) What do you mean by Memory Addressing capacity & WORD Length of a Micropr	ocessor?
What is Memory Addressing capacity & WORD Length of 8085 Microprocessor?	(02)
Q.No.2(a) How Status Flags in 8085 Microprocessor are set? Explain.	(01)
(b) Define "Addressing Modes". Define ALL addressing modes of 8085 Microprocessor w One example in each.	(03)
Q.No.3 Write down an 8085 Assembly language Program for the following with proper comments.	the same and the
State necessary assumptions. (Write Addressing MODEs of each Instructions A "Addition of list of 5 One Byte Numbers & Result is also one Byte."	(03)
Q.No.4 (a) Trace Logic Diagram for the 4-Bit Adder -Subtractor Circuit.	(02)
(b) Trace Logic Diagram for the 4-Bit Binary Incrementor Circuit using Half Adder.	(01)
Q.No.5(a) Explain in brief Construction & Working of Hard Disk & Pen Drive.	(02)
(b) What is BIOS? Write its ROLE in BOOTING of the Computer.	(02)
(c) Compare Assembler Vs CROSS-Assembler? Give one Example of CROSS-Assembler?  Justify why it is called CROSS-Assembler?	nbler &
* END *	(01)