

# UNIVERSITY OF CALCUTTA

FAKIR CHAND COLLEGE

B.SC. SEM-IV (H) EXAMINATION : 2020

PAPER : CMSA-CC10

F.M. : 50(10 + 25 + 15)

TIME : 2 Hrs

## INTERNAL

**Answer any 2 questions:**

**5x2=10**

1. Explain the operation of ADD and STAX
2. Explain the operation of PUSH and POP
3. Explain the operation of RIM and SIM

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**THEORY**

**Answer any 5 questions:**

**5x5=25**

1. Draw a neat diagram of 8085A microprocessor and mention the signals used?
2. How many types of buses are present in a microprocessor describe them?
3. Describe the process of latching of address and data in a 8085 microprocessor?
4. How many types of jump instruction are present in the microprocessor explain them?
5. What is stack ? Explain the operation of EI and DI
6. How many types of registers are present in 8086? Explain the segment register of 8086?
7. Explain the instructions  
LXI SP, 2000<sub>H</sub>  
LXI H, 4242<sub>H</sub>

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**PRACTICAL**

**Answer the following questions:**

**5x3=15**

1. Write a program to add two number with carry and store the result in two different location
2. Write a program to multiply two number using repetitive addition
3. Write a program to transfer five numbers from five memory blocks to another five memory blocks