



K23U 3541

Reg. No. : .....

Name : .....

**III Semester B.C.A. Degree (CBCSS – OBE – Regular/Supplementary/  
Improvement) Examination, November 2023  
(2019 to 2022 Admissions)**

**Core Course**

**3B06BCA : INTRODUCTION TO MICROPROCESSORS**

Time : 3 Hours

Max. Marks : 40

**PART – A  
(Short Answer)**

Answer **all** questions.

(6×1=6)

1. What do you mean by microprocessor ?
2. Mention various flags in 8085 microprocessor.
3. Mention two functional units of 8086 microprocessor.
4. What is the use of ISR register in 8259A ?
5. What is the use of TRAP pin signal ?
6. What is the purpose of JNZ instruction ?

**PART – B  
(Short Essay)**

Answer **any 6** questions.

(6×2=12)

7. Write advantages of microprocessor.
8. Write note on string instructions.
9. What do you mean by maskable interrupts ?
10. Write any two shift instructions in 8086.

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11. What do you mean by interrupts ?
12. Compare 8085 and 8086 microprocessor. (Mention any 2 properties each)
13. Short note on various operation modes of 8255 peripheral interface.
14. Write note on minimum and maximum mode of 8086 microprocessor.

**PART – C  
(Essay)**

Answer **any 4** questions.

**(4×3=12)**

15. Write an assembly language program to add two 16 bit numbers.
16. Explain any 6 registers of 8085 microprocessor.
17. Explain any 6 arithmetic instructions of 8086.
18. Short note on stack structure of 8086.
19. Compare programmed I/O and interrupt driven I/O.
20. Write note on DMA.

**PART – D  
(Long Essay)**

Answer **any 2** questions.

**(2×5=10)**

21. Explain with a neat diagram architecture of 8085 microprocessor.
  22. Explain various data transfer instruction in 8085 microprocessor.
  23. Explain interrupts and ISR of 8086 microprocessor.
  24. Explain register organisation of 8086 microprocessor.
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