K22U 3585

Reg. No. : ....

Name : ....

Third Semester B.C.A. Degree (CBCSS – OBE – Regular/Supplementary/
Improvement) Examination, November 2022
(2019 Admission Onwards)
Core Course
3B06BCA : INTRODUCTION TO MICROPROCESSORS

Time : 3 Hours   Max. Marks : 40

SECTION – A

Answer **all** the questions.   (6×1=6)

1. Define Bus.

2. _____ is a DMA Controller chip.

3. The length of 8086 memory address is _____ bits.

4. Zero flag is set when

5. Name the register that part of ALU.

6. The BSA instruction is

SECTION – B

(Short Essay)

Answer **any 6** questions.   (6×2=12)

7. What are assembler directives ?

8. What are interrupt service routines ?

9. What are the flag manipulation instructions in 8086 Microprocessor ?

10. Give an account of the following :

    a) MOV C,D

    b) MOV B,D

    c) HLT.

P.T.O.

11. How does branch instruction differ from loop instruction ?

12. What is the use of SIM instruction ?

13. What is memory mapped I/O ?

14. What is the function of programmable interrupt controller ?

SECTION – C

(Essay)

Answer **any 4** questions.   (4×3=12)

15. Differentiate Maskable and Non Maskable interrupts.

16. Write a note on Bus Organization of 8085.

17. Compare 8085 with 8086 Microprocessors.

18. Write a note on various data transfer instructions.

19. How does DMA controller work ?

20. Enumerate various flag registers used in 8086.

SECTION – D

(Long Essay)

Answer **any 2** questions.   (2×5=10)

21. Explain the features of 8086 Microprocessor.

22. Detail on the various addressing modes in 8086 Microprocessor.

23. Explain the features and architecture of programmable interrupt controller 8259A.

24. With the help of a neat diagram, explain the architecture and features of 8255 Microprocessor.

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