

2124

B. E. (Computer Science and Engineering)
Third Semester
CS-304: Microprocessors

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting two questions from each Unit. Any missing data or misprinted data may be assumed suitably.

x-x-x

I. Attempt the following:-

- a) Describe special purposes registers in 8085 microprocessor.
- b) How clock signals are generated in 8085 and what is the frequency of the internal clock?
- c) Explain the subroutine call and return statements.
- d) What happens when microprocessor is interrupted?
- e) Justify the basic requirement of programmable interval counter and interrupt. (5x2)

UNIT - I

- II. Exemplify the various addressing mode in 8085 microprocessor with suitable examples. (10)
- III. How can you perform conditional branching in 8085 programming? Give an example of a conditional branch instruction. (10)
- IV. Explain how the instructions are classified in 8085 microprocessor? (10)

UNIT - II

- V. What are the flags affected when the 8085 microprocessor executes the CALL instruction for subroutine calls? Explain. (10)
- VI. Explain the Vectored interrupts of 8085 microprocessor. (10)
- VII. Draw the architecture along with the control words of 8257 DMA controller. (10)

x-x-x