

# Introduction to Microprocessors and Organization of 8085

Probable marks : 21

Scope of the syllabus :-

- Evolution of microprocessors.
- What is microprocessor ?
- Block diagram of generic microprocessor and study of various blocks in it.
- Block diagram of 8085 microprocessor.
- Study of various blocks and functions of various pins in 8085 microprocessor.

(March 2017)

Q.1 What is microprocessor ? List its functions.

Ans. :

- 1) Microprocessor is a semiconductor, multipurpose, programmable logic device that reads binary instructions from a storage device called memory, accepts binary data as input and processes data according to the instructions and provides result as output.
- 2) The electronic logic circuits in microprocessor are capable of performing various computing functions and making decisions to change the sequence of program execution.
- 3) Microprocessor can also be viewed as an integrated circuit, that contains processing capabilities of large computers.
- 4) A microprocessor can be roughly divided into three parts :



1. Arithmetic and logic unit (ALU)
2. Registers
3. Control unit

A.L.U is arithmetic and logic unit, where arithmetical and logical operations are carried out. Registers are primarily used to store data temporarily during execution of program. Control unit provides timing and control signals to the whole system. It also controls flow of data.

- 5) The functions of microprocessor are given below :
  - a) To fetch, decode and execute instructions.

# Chapter 2 Solution Of 8085 Microprocessor

**Clemens Wendtner**



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## **Table of Contents Chapter 2 Solution Of 8085 Microprocessor**

1. Understanding the eBook Chapter 2 Solution Of 8085 Microprocessor
  - The Rise of Digital Reading Chapter 2 Solution Of 8085 Microprocessor
  - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 2 Solution Of 8085 Microprocessor
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Chapter 2 Solution Of 8085 Microprocessor
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 2 Solution Of 8085 Microprocessor
  - Personalized Recommendations
  - Chapter 2 Solution Of 8085 Microprocessor User Reviews and Ratings
  - Chapter 2 Solution Of 8085 Microprocessor and Bestseller Lists
5. Accessing Chapter 2 Solution Of 8085 Microprocessor Free and Paid eBooks

- Chapter 2 Solution Of 8085 Microprocessor Public Domain eBooks
  - Chapter 2 Solution Of 8085 Microprocessor eBook Subscription Services
  - Chapter 2 Solution Of 8085 Microprocessor Budget-Friendly Options
6. Navigating Chapter 2 Solution Of 8085 Microprocessor eBook Formats
    - ePub, PDF, MOBI, and More
    - Chapter 2 Solution Of 8085 Microprocessor Compatibility with Devices
    - Chapter 2 Solution Of 8085 Microprocessor Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Chapter 2 Solution Of 8085 Microprocessor
    - Highlighting and Note-Taking Chapter 2 Solution Of 8085 Microprocessor
    - Interactive Elements Chapter 2 Solution Of 8085 Microprocessor
  8. Staying Engaged with Chapter 2 Solution Of 8085 Microprocessor
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Chapter 2 Solution Of 8085 Microprocessor
  9. Balancing eBooks and Physical Books Chapter 2 Solution Of 8085 Microprocessor
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Chapter 2 Solution Of 8085 Microprocessor
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Chapter 2 Solution Of 8085 Microprocessor
    - Setting Reading Goals Chapter 2 Solution Of 8085 Microprocessor
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Chapter 2 Solution Of 8085 Microprocessor
    - Fact-Checking eBook Content of Chapter 2 Solution Of 8085 Microprocessor
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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