

# Introduction to Microprocessors and Organization of 8085

Probable marks : 21

Scope of the syllabus :-

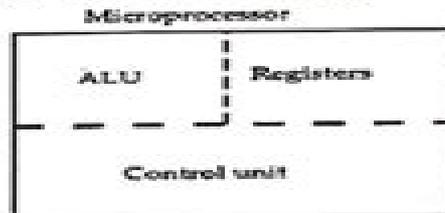
- Evolution of microprocessors.
- What is microprocessor ?
- Block diagram of generic microprocessor and study of various blocks in it.
- Block diagram of 8085 microprocessor.
- Study of various blocks and functions of various pins in 8085 microprocessor.

[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

**Brendan G. Carr**



## Chapter 2 Solution Of 8085 Microprocessor:

**Microprocessors and Microcomputer Development Systems** Mohamed Rafiquzzaman,1984 **Microcomputers and Microprocessors** John E. Uffenbeck,2000 For a one semester undergraduate level course in Introductory Microprocessor and Microcomputers A background in DC and AC circuits digital logic circuits and the hexadecimal number system is recommended Providing a solid foundation in the technology of microcomputers this hands on text helps students develop an understanding of the hardware components of a microcomputer system and the role of the software to control that hardware Full of valuable troubleshooting tips it focuses on three compatible 8 bit microprocessor chips the Intel 8080 and 8085 and the Zilog Z 80 and uses them as models to help students learn the differences between RAM and ROM and how these two types of memory are interfaced to the microprocessor to understand how an input or output port works and to explore the construction of a serial interface **Instructors Resource Manual with Solutions and Test Item File** William Kleitz,2001-08-23 [Introduction to the 8085A Microcomputer](#) Adi J. Khambata,1987 Provided here is specific information on the 8085A family hardware and software Using a unique approach it covers the three most popular and widely used 8 bit microcomputer products ZILOG Z80 INTEL 8085A presented in three separate softcover supplements The book was originally intended as a supplement to Khambata s textbook Microprocessors Microcomputers Architecture Software and Systems 2nd Edition but it may also be used as a supplement to other basic texts or as a brief stand alone introduction to the 8085A allowing for much flexibility in teaching Each chapter includes a list of objectives and end of chapter questions [NSC800 Microprocessor Family Handbook](#),1981 **NSC800 Microprocessor Family Handbook** National Semiconductor Corporation,1981 **Advanced Microprocessors** Daniel Tabak,1996 *The 8080/8085 Microprocessor Book* Intel Marketing Communications,1980 *Digital Electronics with Microprocessor Applications* Alan C. Dixon,James L. Antonakos,1987 A textbook for courses in digital electronics and microprocessors offered in departments of electrical engineering technology or computer science The book covers the basics of digital logic design and the design of microprocessor based systems Also covered are computer fundamentals and microprocessor hardware and software 8085 with many programming examples The text describes most important available microprocessors with laboratory exercises instructional objectives and self evaluation questions **Microprocessor and Microcontroller Fundamentals** William Kleitz,1998 Short concise and easily accessible this book uses the 8085A microprocessor and 8051 microcontroller to explain the fundamentals of microprocessor architecture programming and hardware It features only practical workable designs so that readers can develop a complete understanding of the application with no frustrating gaps in the explanations An abundance of real life hardware software and schematic interpretation problems prepare readers to troubleshoot and trace signals through situations they will likely encounter on the job **8085A Cookbook** Christopher A. Titus,Jonathan A. Titus,David G. Larsen,1980 Basic microprocessor ,microcomputer concepts Basic system control Memory systems memory

decoding Read only memories Read write memories Microcomputer interfacing 8085A family compatible chips A simple 8085A microcomputer design 8085A instruction set summary Data sheets Electrical characteristics of typical ROMs Data sheets for 2114 R W memories

**Microprocessor Systems** James W. Stewart,1990 *Microprocessor-microcomputer Technology* Frederick F. Driscoll,1983 *International Journal of Electrical Engineering Education* ,1983

**An Introduction to the Intel Family of Microprocessors** James L. Antonakos,1996 Fuelled by example and application this text takes readers on an in depth hands on exploration of the hardware and software giving equal treatment to both of the Intel 8088 microprocessor After examining more than 60 different applications Antonakos guides readers through the construction and programming of their own 8088 based computer This edition expands coverage to include completely new topics while it updates treatments of existing topics in an overall effort to allow greater access to the power of the personal computer

*Proceedings* American Society for Engineering Education. Conference,1988

**Journal of the Indian Institute of Science** Indian Institute of Science, Bangalore,1988

Practical Troubleshooting Techniques for Microprocessor Systems James Coffron,1981 *Development Tools Handbook* Intel Corporation,1987

Microcomputer development language Microcomputer software development tools In circuit emulators Network development systems Microcomputer development systems System design kits PROM programming EPLD development tools

*Microprocessor Programming and Software Development* Fraser George Duncan,1979

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