

EE6502 Microprocessors and Microcontrollers

Unit –I Part- A

1. What is Microprocessor? Give the power supply & clock frequency of 8085.

The microprocessor is a programmable device that takes in numbers, performs on them arithmetic or logical operations according to the program stored in memory and then produces other numbers as a result. It has 40 pins and uses +5V for power. It can run at a maximum frequency of 3 MHz.

2. State the use of RESET IN and RESET OUT pins of 8085 processor.

RESET IN (Input)

Reset sets the Program Counter to zero and resets the Interrupt Enable and HLDA flipflops. None of the other flags or registers (except the instruction register) are affected. The CPU is held in the reset condition as long as Reset is applied.

RESET OUT (Output)

Indicates CPU is being reset. Can be used as a system RESET. The signal is synchronized to the processor clock.

3. Mention the purpose of SID and SOD lines.

SID (Input)

Serial input data line. The data on this line is loaded into accumulator bit 7 whenever a RIM instruction is executed.

SOD (Output)

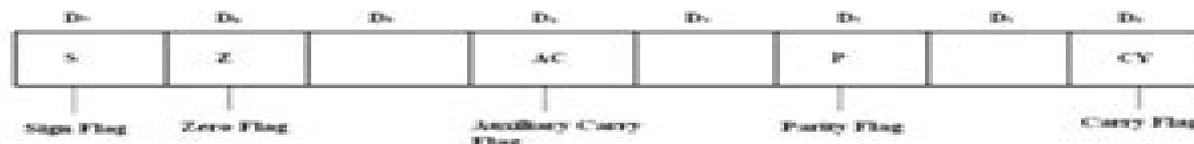
Serial output data line. The output SOD is set or reset as specified by the SIM instruction.

4. What are the functions of an accumulator?

The accumulator is an 8-bit register that is a part of arithmetic/logic unit (ALU). This register is used to store 8-bit data and to perform arithmetic and logical operations. The result of an operation is stored in the accumulator. The accumulator is also identified as register A.

5. What are the flags in 8085?

8 bit register –shows the status of the microprocessor before/after an operation–S (sign flag), Z (zero flag), AC (auxiliary carry flag), P (parity flag) & CY (carry flag)



Microprocessors Questions Answers

RJ Shavelson



Microprocessors Questions Answers:

Microprocessor and Microcontroller Interview Questions: Anita Gehlot Rajesh Singh,2020-01-01 Crack the Microprocessor and Microcontroller Interview Description Book gives you a complete idea about the Microcontroller and Microprocessor It starts from a very basic concept like a number system then explains the digital circuit This book is a complete set of interview questions and answers with plenty of screenshots Book takes you on a journey to Microprocessor 8085 Peripheral Devices and Interfacing AVR ATmega32 Interfacing of Input Output Device Book also covers the descriptive questions multiple choice questions along with answers which are asked during an interview Key features An ample number of diagrams are used to illustrate the subject matter for easy understanding Set of review questions with answers are added at the end for better understanding Includes basic to advanced interview questions on 8085 8086 89C51 PIC and AVR interfacing of input output devices It will help to enhance the programming skills of the reader What will you learn Basics to an advanced interview question for microprocessor 8085 8086 and microcontroller 89C51 PIC and AVR Question on interfacing of input output devices Who this book is for Engineering students pursuing a course in electrical and electronics electronics and communication computer science and information technology who wish to learn about Microprocessor Microcontroller and crack an interview Table of Contents 1 Number Systems 2 Digital Circuit 3 Microprocessor 8085 4 Peripheral Devices and Interfacing 5 AVR ATmega32 6 Interfacing of Input Output Device 7 Exercise 8 Descriptive Type Questions 9 Multiple Choice Questions

Mastering 8085 & 8086 Microprocessors: A Question-Answer Approach
Author Dr. Maitrayee Chakrabarty ,Dr. Barnali kundu,Dr. Himadri Sekhar Das,Dr. Maitrayee Chakrabarty,Ms. Debodyuti Upadhaya,2026-02-14 Mastering 8085 8086 Microprocessors A Question Answer Approach is a focused textbook designed for engineering students and educators It covers the Intel 8085 8086 architectures in depth instruction sets addressing modes timing diagrams interrupts DMA and memory I O interfacing using a structured Q A format with clear diagrams and MCQs The book aligns with undergraduate syllabi boosts conceptual understanding problem solving skills and prepares readers for exams competitive assessments Written by experienced faculty it serves both classroom learning and self study

Fundamentals of Microprocessors Henry O. Daley,1983 **Microprocessor Interfacing and Communication Using the Intel SDK-85** Borivoje Furht,Himanshu Parikh,1986 *Microprocessor Theory and Operation* J. A. Sam Wilson,Joseph Risse,1995 By covering digital circuits in addition to microprocessors and providing self tests and experiments this book makes it easy to learn microprocessor systems The text is fully integrated with circuits specifications and pinouts to be a valuable resource to both beginners and veterans **Microprocessor Handbook** Joseph D. Greenfield,1985

Microprocessors and Microcomputer Development Systems Mohamed Rafiquzzaman,1984 Microcomputers and Microprocessors John E. Uffenbeck,1991 An introduction to microprocessors updated to cover recent models Designed as a first course in microcomputers this new edition covers the hardware and machine language software of the 8080 8085 and Z

80 8 bit microprocessors It explores various aspects of microcomputer technology using examples of 8080 8085 and Z 80 applications

The Challenge of Microprocessors M. G. Hartley, Anne Buckley, 1979 Episodes in ESP John Swales, 1985 Microprocessors for Management, CAD, CAM, and Robotics Dimitris N. Chorafas, 1982 The challenge of continuing development New horizons Applying microprocessor technology Device architecture Product incentives An information policy Designing manufacturing and interfacing The wafer Quality assurance Engineering premises Interconnecting and interfacing Firmware and microcode Computer aided design A CAD methodology Robotics Tuning the manufacturing capability A process in control

Designing Microprocessor-based Instrumentation Joseph J. Carr, 1982 Instrumentation Introduction to microcomputers Examination of two popular uP chips Binary arithmetic and digital codes Interfacing techniques Microprocessor support chips Solving problems with the microprocessor Address decoders Interfacing memory Interfacing I O ports Signals and noise Operational amplifiers Transducers Sample Hold circuits Analog reference circuits Interfacing keyboards switches and displays Basics of data conversion D A Basics of data conversion A D Data acquisition systems Data converter interfacing Software data conversion Z80 instructions sorted by Op code Z80 instructions sorted by mnemonic Z80 8080 instruction equivalence Microprocessor Software Project Management Eli T. Fathi, Cedric V. W. Armstrong, Ontario Centre for Microelectronics, 1985 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

Programming the 6800 Microprocessor Bob Southern, 1977 *Advances in microprocessor peripherals*, 1984 Digital Electronics William Kleitz, 2002 For freshman sophomore undergraduate level courses in Digital Electronics This easy to understand book illustrates practical applications using circuits the student will face on the job

Bulletin of the Institution of Engineers (India). Institution of Engineers (India), 1984 Understanding Microprocessors Arthur William Thompson, 1995 Ideal for a newly established course in microprocessors this book covers Intel and Motorola microprocessors and the basics of interfacing microprocessors to peripheral devices ALSO AVAILABLE INSTRUCTOR SUPPLEMENTS CALL CUSTOMER SUPPORT TO ORDER Instructor s Guide ISBN 0 8273 5348 0

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Table of Contents Microprocessors Questions Answers

1. Understanding the eBook Microprocessors Questions Answers
 - The Rise of Digital Reading Microprocessors Questions Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Microprocessors Questions Answers
 - 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 Microprocessors Questions Answers

- User-Friendly Interface
- 4. Exploring eBook Recommendations from Microprocessors Questions Answers
 - Personalized Recommendations
 - Microprocessors Questions Answers User Reviews and Ratings
 - Microprocessors Questions Answers and Bestseller Lists
- 5. Accessing Microprocessors Questions Answers Free and Paid eBooks
 - Microprocessors Questions Answers Public Domain eBooks
 - Microprocessors Questions Answers eBook Subscription Services
 - Microprocessors Questions Answers Budget-Friendly Options
- 6. Navigating Microprocessors Questions Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Microprocessors Questions Answers Compatibility with Devices
 - Microprocessors Questions Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Microprocessors Questions Answers
 - Highlighting and Note-Taking Microprocessors Questions Answers
 - Interactive Elements Microprocessors Questions Answers
- 8. Staying Engaged with Microprocessors Questions Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Microprocessors Questions Answers
- 9. Balancing eBooks and Physical Books Microprocessors Questions Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Microprocessors Questions Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Microprocessors Questions Answers
 - Setting Reading Goals Microprocessors Questions Answers

- Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Microprocessors Questions Answers
 - Fact-Checking eBook Content of Microprocessors Questions Answers
 - 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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