

Fourth Semester B.E. Degree Examination, Dec.2017/Jan.2018
Microprocessor and Microcontroller

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing one full question from each module.

Module-1

1.
 - a. Explain the architecture of 8086 microprocessor with a neat diagram along with functions of various blocks. (06 Marks)
 - b. With an example distinguish between physical address, logical address and offset address. If CS = 2000 h, DS = 3000 h, SS = 4000 h, ES = 5000 h, BX = 0020 h, BP = 0030 h. Find physical address for (i) MOV AL, [BP] (ii) MOV CX, [BX]. (04 Marks)
 - c. Explain the following addressing modes of 8086:
 - i) Register indirect
 - ii) Based indexed indirect
 - iii) Direct memory. (06 Marks)

OR

2.
 - a. What are assembler directives? Explain the following assembler directives (i) PROC, (ii) Assume, (iii) PTR. (04 Marks)
 - b. Write assembly language program to add 5 bytes of data stored in data segment. (04 Marks)
 - c. With syntax, explain the following control transfer instructions:
 - i) Conditional transfer
 - ii) Unconditional transfer instruction. (08 Marks)

Module-2

3.
 - a. Explain the syntax of following instructions with an example:
 - i) DAA ii) MUL iii) AND iv) SHR v) CMP vi) AAM (06 Marks)
 - b. Write a program to convert lower case to upper case by reading string from KB and print the converted string at 10th row, 20th column after clearing the screen. (06 Marks)
 - c. Write an ALP to count the number of one's and zero's in a given 8 bit data using rotate instructions. (04 Marks)

OR

4.
 - a. Explain the syntax of following instructions with example: i) AAA, ii) Shl, iii) DIV, iv) RCR. (04 Marks)
 - b. What is an interrupt? Explain various types with an interrupt vector table. (06 Marks)
 - c. Write an ALP to sort a given set of 16 bit numbers in ascending order using any sorting method. (06 Marks)

Module-3

5.
 - a. With an example, explain how to identify over flow and under flow using flags in a flag register for performing arithmetic operation on 16 bit number. (06 Marks)
 - b. Write the syntax of following instruction and explain with an example: (i) CBW, (ii) IDIV, (iii) CMPSB, (iv) Xlat. (04 Marks)
 - c. Design a memory system for 8086 with one 64 KB RAM and one 64 KB ROM at address 30000h and F0000h show the complete design along with memory mapping and draw the final diagram with address decoder. (06 Marks)

Microprocessor And Microcontroller University Question Paper

Sabine Zange



Microprocessor And Microcontroller University Question Paper:

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

IEICE Transactions on Electronics ,2002 **Journal of the Audio Engineering Society** Audio Engineering Society, 1988 Directory of members published as pt 2 of Apr 1954 issue

Electrical & Electronics Abstracts ,1997 **Eighth IEE International Conference on Developments in Power System Protection, 5-8 April, 2004, RAI Centre, Amsterdam, The Netherlands** ,2004 **PESC '90 Record** ,1990

The New York Times Index ,1990 **MICROPROCESSORS AND MICROCONTROLLERS** MATHUR, SUNIL, PANDA, JEEBANANDA ,2016-08 Primarily intended for diploma undergraduate and postgraduate students of electronics electrical mechanical information technology and computer engineering this book offers an introduction to microprocessors and microcontrollers The book is designed to explain basic concepts underlying programmable devices and their interfacing It provides complete knowledge of the Intel s 8085 and 8086 microprocessors and 8051 microcontroller their architecture programming and concepts of interfacing of memory IO devices and programmable chips The text has been organized in such a manner that a student can understand and get well acquainted with the subject independent of other reference books and Internet sources It is of greater use even for the AMIE and IETE students those who do not have the facility of classroom teaching and laboratory practice The book presents an integrated treatment of the hardware and software aspects of the 8085 and 8086 microprocessors and 8051 microcontroller Elaborated programming solved examples on typical interfacing problems and a useful set of exercise problems in each chapter serve as distinguishing features of the book

Microprocessors and Microcontrollers for Anna University A. Nagoor Kani, 2022-03-30 Primarily designed for the latest syllabus of Anna University

Microprocessors and Microcontrollers Raja Suresh, Dr. Ch. Hima Bindhu, S. R. Jena, 2022-09-07 This book aims to provide a broad description about MICROPROCESSORS AND MICROCONTROLLERS which are well known in various engineering fields. It provides a logical method of explaining various complicated concepts and stepwise methods to explain important topics. Each chapter is well supported with the necessary illustrations. All the chapters in the book are arranged in a proper sequence that permits each topic to build upon earlier studies. MICROPROCESSORS AND MICROCONTROLLERS are the important research areas. The techniques developed in this area so far require to be summarized appropriately. In this book the fundamental theories of these techniques are introduced. The brief content of this book is as follows: CHAPTER 1 INTRODUCTION OF MICRO PROCESSOR CHAPTER 2 MICROPROCESSOR 8086 CHAPTER 3 I/O INTERFACE CHAPTER 4 INTERFACING ANALOG TO DIGITAL DATA CONVERTERS CHAPTER 5 ADVANCED INTERFACING CHAPTER 6 MICROCONTROLLERS CHAPTER 7 APPLICATIONS

The Essential PIC18® Microcontroller Sid Katzen, 2010-06-18 Microprocessors are the key component of the infrastructure of our 21st century electronic and digital information based society. More than four billion are sold each year for use in intelligent electronic devices ranging from smart egg timer through to aircraft management systems. Most of these processor devices appear in the form of highly integrated microcontrollers which comprise a core microprocessor together with memory and analog/digital peripheral ports. By using simple cores these single chip computers are the cost and size effective means of adding the brains to previous dumb widgets such as the credit card. Using the same winning format as the successful Springer guide *The Quintessential PIC Microcontroller* this down to earth new textbook guide has been completely rewritten based on the more powerful PIC18 enhanced range Microchip MCU family. Throughout the book commercial hardware and software products are used to illustrate the material as readers are provided real world in depth guidance on the design, construction and programming of small embedded microcontroller based systems. Suitable for stand alone usage the text does not require a prerequisite deep understanding of digital systems. Topics and features: uses an in depth bottom up approach to the topic of microcontroller design using the Microchip enhanced range PIC18 microcontroller family as the exemplar; includes fully worked examples and self assessment questions with additional support material available on an associated website; provides a standalone module on foundation topics in digital logic and computer architecture for microcontroller engineering; discusses the hardware aspects of interfacing and interrupt handling with an emphasis on the integration of hardware and software; covers parallel and serial input/output timing, analog and EEPROM data handling techniques; presents a practical build and program case study as well as illustrating simple testing strategies. This useful text/reference book will be of great value to industrial engineers, hobbyists and people in academia. Students of Electronic Engineering and Computer Science at both undergraduate and postgraduate level will also find this an ideal textbook with

many helpful learning tools Dr Sid Katzen is Associate to the School of Engineering University of Ulster at Jordanstown Northern Ireland

Microprocessor and Microcontroller Atul P. Godse, Deepali A. Godse, 2010 Advanced Microprocessor & Microcontrollers S. K. Venkata Ram, 2004 Advanced Microprocessors and Microcontrollers B. P. Singh, Renu Singh, 2008 MICROPROCESSORS AND MICROCONTROLLERS :: ARCHITECTURE, PROGRAMMING AND SYSTEM DESIGN 8085, 8086, 8051, 8096 KANT, KRISHNA, 2014-01-01 This book provides the students with a solid foundation in the technology of microprocessors and microcontrollers their principles and applications It comprehensively presents the material necessary for understanding the internal architecture as well as system design aspects of Intel s legendary 8085 and 8086 microprocessors and Intel s 8051 and 8096 microcontrollers The book throughout maintains an appropriate balance between the basic concepts and the skill sets needed for system design Besides the book lucidly explains the hardware architecture the instruction set and programming support chips peripheral interfacing and cites several relevant examples to help the readers develop a complete understanding of industrial application projects Several system design case studies are included to reinforce the concepts discussed With exhaustive coverage and practical approach the book would be indispensable to undergraduate students of Electrical and Electronics Electronics and Communication and Electronics and Instrumentation Engineering It can be used for a variety of courses in Microprocessors Microcontrollers and Embedded System Design The second edition of the book introduces additional topics like I O interfacing and programming serial interface programming delay programming using 8086 and 8051 Besides many more examples and case studies have been added Microprocessor and Microcontroller Saurabh Chaudhury, Risha Mal, 2025-06-01 Microprocessors and Microcontrollers N. Senthil Kumar, M. Saravanan, S. Jeevananthan, 2010 Key Features Basics of Microprocessors and Microcontrollers Mr. Rohit Manglik, 2024-03-10 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

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