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B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2014.

Sixth Semester

Electrical and Electronics Engineering

EC 1301 — MICROPROCESSOR AND MICROCONTROLLER

(Common to Electronics and Instrumentation Engineering/Instrumentation and Control Engineering and Fifth Semester Electronics and Communication Engineering)

(Regulation 2008)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Write a 8085 program to find the 2's complement of a number.
2. If the contents of the A and D registers are B9H and B7H respectively, what are the flags that will be affected when the instruction CMP D is executed?
3. Distinguish asynchronous and synchronous data transmission.
4. Distinguish RS-232C and RS-485 standards.
5. What does the instruction MOV CS: [BX], DL mean?
6. Give the difference between near and far jumps.
7. Write the applications of data pointer of 8051.
8. What are the functions of special function registers in 8051?
9. Write a 8051 program to divide two 8-bit numbers.
10. Mentions the applications of ACALL and LCALL instructions.

Microcontroller And Plc May June Question Papers

Peter Spasov



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This book contains 2500 questions and also covers Physics Fundamentals Electricity and Magnetism and Electronics and Measurements **Technologies for the Information Society** Jean-Yves Roger,Brian Stanford-Smith,Paul T. Kidd,1998
GATEWAYS TO DEMOCRACY continues with its framework of gateways to help readers conceptualize participation and civic engagement even democracy itself with reference to how individuals access the political system This approach helps readers better see the relevance of government in their lives GATEWAYS uniquely incorporates policy into a section at the end of each chapter helping readers better understand the connection between public opinion policy making and how public policy applies to their lives The second edition complete with 2012 election updates emphasizes critical thinking by clearly outlining learning outcomes and enhancing learning with self assessment Checkpoints and a clear chapter study plan Chapters in this ESSENTIALS version are condensed to accommodate a shorter format but preserve the integrity of the text s hallmarks

Proceedings of the 2003 International Symposium on Performance Evaluation of Computer and Telecommunication Systems, July 20-24, 2003 Montreal, Quebec, Canada Mohammad Salameh Obaidat,2003 Issues for 2011 cataloged as a serial in LC *InTech* ,2000-07 **Electrical & Electronics Abstracts** ,1997 **Index to IEEE Publications** Institute of Electrical and Electronics Engineers,1995 Issues for 1973 cover the entire IEEE technical literature **Consultants & Consulting Organizations Directory** Cengage Gale,2009-05-12 **PIC16F1847 Microcontroller-Based Programmable Logic Controller** Murat Uzam,2020-10-22 The PIC16F1847 Based PLC project supports up to 4 analog inputs and 1 analog output 1 High Speed Counter 2 PWM pulse width modulation outputs 1 Drum Sequencer Instruction with up to 16 steps the implementation of Sequential Function Charts SFCs with up to 24 steps This volume presents advanced concepts of the PIC16F1847 Based PLC project and consists of topics like program control high speed counter and PWM macros It further explains memory related drum sequencer instruction sequential functional charts and analog input and output modules Aimed at researchers and graduate students in electrical engineering power electronics robotics and automation sensors this book Presents program control macros to enable or disable a block of PLC program or to move execution of a program from one place to another Proposes a High Speed Counter and four PWM Macros for high speed counting and PWM operations Develops memory related macros to enable the user to do memory read write operations Provides a Drum Sequencer instruction with up to 16 steps and 16 outputs on each step Discusses the implementation of Sequential Function Chart SFC elements with up to 24 steps *PIC16F1847 Microcontroller-Based Programmable Logic Controller* Murat Uzam,2020-10-22 Programmable logic controllers PLCs have been used extensively and are offered in terms of functions program memories and the number of inputs outputs I Os ranging from a few to thousands With a focus on

how to design and implement a PLC this volume explains hardware and associated basic concepts of PLC Authors have used PIC16F1847 microcontroller with 8192 words of Flash program memory 1024 bytes of SRAM data memory 256 bytes of EEPROM data memory the maximum operating speed of 32 MHz 16 level deep hardware stack an enhanced instruction set consisting of 49 single word instructions Flowcharts are provided to help the understanding of macros instructions Aimed at researchers and graduate students in electrical engineering power electronics robotics and automation sensors this book Explains how to design and use a PIC16F1847 microcontroller based PLC Provides easy to use software structures written by using the PIC Assembly programming language Describes a PLC from a designer s perspective Explains the basic hardware and basic software structures of the PIC16F1847 based PLC Focuses on concepts like Contact and Relay Based Macros Flip Flop Macros Timer Macros Counter Macros and Comparison Macros

PIC16F1847 Microcontroller-Based Programmable Logic Controller Murat Uzam,2020-10-22 The volume focusses on intermediate concepts of the PIC16F1847 Based PLC project and covers arithmetical operation ability of PLCs logical function performers and operations like AND NAND OR NOR Further it explains shift and rotate macros moving bits in a register to right or left and selection macros enabling one value to be selected from several given values according to certain criteria Demultiplexer circuit is illustrated which is used to send a signal to one of many devices Finally it explains decoder priority encoder and conversion macros All the concepts are supported using flowcharts Aimed at researchers and graduate students in electrical engineering power electronics robotics and automation sensors this book Presents arithmetical and logical macros to carry out arithmetical and logical operations to be used for 8 bit or 16 bit variables and or constant values Provides shift and rotate macros to do arithmetical or logical shift and rotate operations to be used for 8 bit or 16 bit variables Proposes selection macros to enable the user to do 8 bit or 16 bit move load selection maximum minimum limiting multiplexing and byte multiplexing operations Develops demultiplexer macros decoder macros and priority encoder macros to be used as combinational circuits Presents conversion macros to provide functions to convert given data from one format to another one

Pic16f1847 Microcontroller-Based Programmable Logic Controller Three Volume Set Murat Uzam,2020-10-23

Programmable logic controllers PLCs have been used extensively and are offered in terms of functions program memories and the number of inputs outputs I Os ranging from a few to thousands With a focus on how to design and implement a PLC this set explains hardware and associated basic concepts intermediary and advanced concepts of PLC using PIC16F1847 microcontroller Flowcharts are provided to help the understanding of macros instructions Twenty application examples to show how to use the PIC16F1847 Based PLC in different control applications related files for hardware and software components and appendices are also provided Aimed at researchers and graduate students in electrical engineering power electronics robotics and automation sensors this book Explains how to design and use a PIC16F1847 microcontroller based PLC including easy to use software structures Covers concepts like Contact and Relay Based Macros Flip Flop Macros Timer

Macros Counter Macros and Comparison Macros Presents arithmetical and logical macros to carry out arithmetical and logical operations to be used for 8 bit or 16 bit variables and or constant values Illustrates program control macros to enable or disable a block of PLC program or to move execution of a program from one place to another Discusses the implementation of Sequential Function Chart SFC elements with up to 24 steps

Building a Programmable Logic Controller with a PIC16F648A Microcontroller Murat Uzam,2013-08-28 Programmable logic controllers PLCs are extensively used in industry to perform automation tasks with manufacturers offering a variety of PLCs that differ in functions program memories and the number of inputs outputs I O Not surprisingly the design and implementation of these PLCs have long been a secret of manufacturers Unveiling the mysteries of PLC technology Building a Programmable Logic Controller with PIC16F648A Microcontroller explains how to design and use a PIC16F648A microcontroller based PLC The author first described a microcontroller based implementation of a PLC in a series of articles published in Electronics World magazine between 2008 and 2010 This book is based on an improved version of the project including Updates to the hardware configuration with a smaller CPU board and two I O extension boards that now support 16 inputs and 16 outputs instead of 8 An increased clock frequency of 20 MHz Improvements to several macros Flowcharts to help you understand the macros functions In this book the author provides detailed explanations of hardware and software structures He also describes PIC Assembly macros for all basic PLC functions which are illustrated with numerous examples and flowcharts An accompanying CD contains source files ASM and object files HEX for all of the examples in the book It also supplies printed circuit board PCB Gerber and pdf files so that you can have the CPU board and I O extension boards produced by a PCB manufacturer or produce your own boards Making PLCs more easily accessible this unique book is written for advanced students practicing engineers and hobbyists who want to learn how to build their own microcontroller based PLC It assumes some previous knowledge of digital logic design microcontrollers and PLCs as well as familiarity with the PIC16F series of microcontrollers and writing programs using PIC Assembly language within an MPLAB integrated development environment

The Quintessential PIC® Microcontroller Sid Katzen,2007-07-05 Written specifically for readers with no prior knowledge of computing electronics or logic design Uses real world hardware and software products to illustrate the material and includes numerous fully worked examples and self assessment questions

[PIC Microcontrollers: Know It All](#) Lucio Di Jasio,Tim Wilmshurst,Dogan Ibrahim,John Morton,Martin P. Bates,Jack Smith,David W Smith,Chuck Hellebuyck,2007-07-30 The Newnes Know It All Series takes the best of what our authors have written over the past few years and creates a one stop reference for engineers involved in markets from communications to embedded systems and everywhere in between PIC design and development a natural fit for this reference series as it is one of the most popular microcontrollers in the world and we have several superbly authored books on the subject This material ranges from the basics to more advanced topics There is also a very strong project basis to this learning The average embedded engineer working with this microcontroller

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Techniques Chapter 7 Prototype Hardware Chapter 8 More PIC Applications and Devices Chapter 9 The PIC 1250x Series 8 pin PIC microcontrollers Chapter 10 Intermediate Operations using the PIC 12F675 Chapter 11 Using Inputs Chapter 12 Keypad Scanning Chapter 13 Program Examples Section III Programming PIC Microcontrollers using PicBasic Chapter 14 PicBasic and PicBasic Pro Programming Chapter 15 Simple PIC Projects Chapter 16 Moving On with the 16F876 Chapter 17 Communication Section IV Programming PIC Microcontrollers using MBasic Chapter 18 MBasic Compiler and Development Boards Chapter 19 The Basics Output Chapter 20 The Basics Digital Input Chapter 21 Introductory Stepper Motors Chapter 22 Digital Temperature Sensors and Real Time Clocks Chapter 23 Infrared Remote Controls Section V Programming PIC Microcontrollers using C Chapter 24 Getting Started Chapter 25 Programming Loops Chapter 26 More Loops Chapter 27 NUMB3RS Chapter 28 Interrupts Chapter 29 Taking a Look under the Hood Over 900 pages of practical hands on content in one book Huge market as of November 2006 Microchip Technology Inc a leading provider of microcontroller and analog semiconductors produced its 5 BILLIONth PIC microcontroller Several points of view giving the reader a complete 360 of this microcontroller **Microcontroller Technology** Peter Spasov,2004 CD ROM contains source code and a special demo version of the THRSim11 simulator *The Essential PIC18® Microcontroller* Sid Katzen,2012-09-05 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 comprize 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

The Essential Pic18 Microcontroller Sid Katzen,2010-06-20 Microcontrollers Raj Kamal,2005-02-01 *Pic Microcontroller And Embedded Systems: Using Assembly And C For Pic 18* Mazidi,2008-09 Pic Microcontroller And Embedded Systems Offers A Systematic Approach To Pic Programming And Interfacing Using The Assembly And C Languages Offering Numerous Examples And A Step By Step Approach It Covers Both The Assembly And C Programming Languages And Devotes Separate Chapters To Interfacing With Peripherals Such As Timers Lcds Serial Ports Interrupts Motors And More A Unique Chapter On The Hardware Design Of The Pic System And The Pic Trainer Round Out Coverage While Text Appendices And Online Support Make It Easy To Use In The Lab And Classroom

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