Reg. No. :			

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B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2019.

Seventh Semester

Electrical and Electronics Engineering

EE 6008 — MICROCONTROLLER BASED SYSTEM DESIGN

(Common to Electronics Instrumentation Engineering/ Instrumentation and Control Engineering)

(Regulation 2013)

Time: Three hours

Maximum: 100 marks

Answer ALL questions.

PART A -- $(10 \times 2 = 20 \text{ marks})$

- Compare on-chip and off-chip memory performance for a micro controller.
- 2. What are the addressing modes of PIC?
- What is the minimum and maximum clock frequency of PIC 16CXX?
- 4. What are the features of timer 1?
- How is BUS arbiteration done by I°C Bus?
- What is key debouncing?
- 7. What are device drivers?
- 8. List out some features of Thumb instruction in ARM architecture.
- 9. What are the steps used by pipelining technique?
- 10. What is a compiler?

PART B -- (5 × 13 = 65 marks)

 (a) Explain with neat diagram the architecture of PIC16C7x microcontroller.

Or

- (b) Explain in detail the
 - (i) Control instructions and
 - (ii) Addressing modes of PIC microcontroller.

Microcontroller And Plc May June Question Papers

Murat Uzam

Microcontroller And Plc May June Question Papers:

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 InTech ,2000-07 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 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 **Introduction to Microelectronic Systems** Martin Bates, 2000 Due to its versatility low cost and rapid adoption in industry the PIC microcontroller is now beginning to replace conventional microprocessor systems such as PLCs and the 8051 on electronics courses This manual is based on the PIC 16F84 which is cheap and reusable and the text is written for students with a minimal knowledge of microprocessor systems PIC16F1847 Microcontroller-Based Programmable Logic Controller Murat There are real time system examples 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 PIC16F1847 Microcontroller-Based Programmable Logic Controller Murat Uzam, 2020-10-22 The volume steps 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 Programmable Logic Controller with a PIC16F648A Microcontroller Murat Uzam, 2017-12-19 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 w 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, 2007-08-13 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 will be able to have any question answered by this compilation He she will also be able to work through real life problems via the projects contained in the book The Newnes Know It All Series presentation of theory hard fact and project based direction will be a continual aid in helping the engineer to innovate in the workplace Section I An Introduction to PIC Microcontrollers Chapter 1 The PIC Microcontroller Family Chapter 2 Introducing the PIC 16 Series and the 16F84A Chapter 3 Parallel Ports Power Supply and the Clock Oscillator Section II Programming PIC Microcontrollers using Assembly Language Chapter 4 Starting to Program An Introduction to Assembler Chapter 5 Building Assembler Programs Chapter 6 Further Programming 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

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