

**Time Allowed: 03:00 hrs**

- Read the following instructions carefully before attempting the question paper.
1. This question paper is divided into two parts A and B.
  2. Part A contains 10 questions of 2 marks each. All questions are compulsory.
  3. Part B contains 5 questions of 10 marks each. In each question attempt either question (a) or (b), in case both (a) and (b) questions are attempted for any question then only the first attempted question will be evaluated.
  4. Answer all questions in serial order.
  5. Do not write or mark anything on the question paper except your registration no. on the designated space.

**Max. Marks: 70**

**PART A**

- Q1 a) Explain all the buses used in 8085 microprocessor? [ 2 Marks ]  
 b) Differentiate between Microprocessor and microcontroller. [ 2 Marks ]  
 c) Explain the LCD control pins. [ 2 Marks ]  
 d) What is IDE? Explain. [ 2 Marks ]  
 e) What is the function of Rs pin in LCD? [ 2 Marks ]  
 f) WAP in Arduino to control the intensity of LED automatically high to low without using any sensor. [ 2 Marks ]  
 g) Explain data types in Arduino. [ 2 Marks ]  
 h) Draw only Harvard Architecture. [ 2 Marks ]  
 i) WAP in Arduino to blink the LED connected at Pin 13 after 5 seconds. [ 2 Marks ]  
 j) Explain the working of HOLD and HLDA pin in 8085. [ 2 Marks ]

**PART B**

- Q2 a) WAP in Arduino to interface ultrasonic and display the distance on LCD. If the distance is less than 5cm switch ON the buzzer connected at pin 13. [ 10 Marks ]  
 b) (i) Explain the features of Atmega328P in detail. [ 5 Marks ]  
 (ii) WAP to control the intensity of LED connected at pin-11 of Arduino. The duty cycle will be sent to Arduino using the Serial monitor. [ 5 Marks ]
- Q3 a) Write pin details of LCD. [ 10 Marks ]  
 b) (i) WAP in Arduino to sweep the servo motor w.r.t the movement of the potentiometer. [ 5 Marks ]  
 (ii) WAP in Arduino to convert the value stored in variable 'X' to HEX, OCT, ASCII, BYTE and decimal. After converting show the value on the serial monitor. [ 5 Marks ]
- Q4 a) WAP in Arduino to make up-counter using IR sensor. If a person enters the room then the count should increase by one and if the person moves out the counter should decrement by one and display the count on the serial monitor. [ 10 Marks ]  
 b) (i) Explain L293D in detail. [ 5 Marks ]  
 (ii) Explain some functions of SPI used in Arduino. [ 5 Marks ]
- Q5 a) Design LFR using Arduino, IR, two DC motors and L293D. [ 10 Marks ]  
 b) (i) WAP in 8051 to convert the analog value to digital and show it on Port-2. [ 5 Marks ]  
 (ii) Write the steps to configure Bluetooth HC-05. [ 5 Marks ]
- Q6 a) Explain in detail the addressing modes of 8051 with examples. [ 10 Marks ]  
 b) (i) Interface six LED's with Arduino using Charlieplexing concept. [ 5 Marks ]  
 (ii) Differentiate between C and Embedded C. [ 5 Marks ]

# Microprocessor And Microcontroller Question Paper For Eee

**Daniel J. Pack, Steven Frank Barrett**

## **Microprocessor And Microcontroller Question Paper For Eee:**

**Microprocessors and Microcontrollers** Atul P. Godse, Dr. Deepali A. Godse, 2020-12-01 The book is written for an undergraduate course on the 8085 microprocessor and 8051 microcontroller. It provides comprehensive coverage of the hardware and software aspects of 8085 microprocessor and 8051 microcontroller. The book is divided into two parts. The first part focuses on 8085 microprocessor. It teaches you the 8085 architecture, instruction set, Assembly Language Programming, ALP, interfacing 8085 with support chips, memory and peripheral ICs 8251, 8253, 8255, 8259, 8237 and 8279. It also explains the interfacing of 8085 with data converters ADC and DAC and introduces a temperature control system and data acquisition system design. The second part focuses on 8051 microcontroller. It teaches you the 8051 architecture, instruction set, programming 8051 with ALP and C and interfacing 8051 with external memory. It also explains timers, counters, serial port and interrupts of 8051 and their programming in ALP and C. It also covers the interfacing 8051 with data converters ADC and DAC, keyboards, LCDs, LEDs, stepper motors, servo motors and introduces the washing machine control system design.

**Electrical & Electronics Abstracts**, 1997 Journal of the Audio Engineering Society, Audio Engineering Society, 1988  
Directory of members published as pt 2 of Apr 1954 issue **Modeling and Simulation**, 1990 **PESC '90 Record**, 1990

**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. **The Quintessential PIC(R) Microcontroller** Sid Katzen, 2014-01-15 **Introduction to Microprocessors and Microcontrollers** John Crisp, 2003-11-13 Assuming only a general science education, this book introduces the workings of the microprocessor, its applications and programming in assembler and high level languages such as C and Java. Practical work and knowledge check questions contribute to building a thorough understanding with a practical focus. The book concludes with a step by step walk through a project based on the PIC microcontroller. The concise but clearly written text makes this an ideal book for electronics and IT students and a wide range of technicians and engineers including IT systems support staff and maintenance service engineers. Crisp's conversational style introduces the fundamentals of the microprocessors, microcontrollers, systems on a chip in a way that is utterly painless but technically spot on. The talent of a true teacher. Microprocessors and microcontrollers are covered in one book reflecting the importance of embedded systems in today's computerised world. Practical work and knowledge check questions support a lively text to build a firm understanding of the subject. **Microcontroller Programming and Interfacing with Texas Instruments MSP430FR2433 and MSP430FR5994** Steven F. Barrett, Daniel J. Pack, 2019-08-27 This book provides a thorough introduction to the Texas Instruments MSP430™ microcontroller. The MSP430 is a 16 bit reduced instruction set RISC processor that features ultra low power consumption and integrated digital and analog hardware. Variants of the MSP430 microcontroller have been in

production since 1993 This provides for a host of MSP430 products including evaluation boards compilers software examples and documentation A thorough introduction to the MSP430 line of microcontrollers programming techniques and interface concepts are provided along with considerable tutorial information with many illustrated examples Each chapter provides laboratory exercises to apply what has been presented in the chapter The book is intended for an upper level undergraduate course in microcontrollers or mechatronics but may also be used as a reference for capstone design projects Also practicing engineers already familiar with another microcontroller who require a quick tutorial on the microcontroller will find this book very useful This second edition introduces the MSP EXP430FR5994 and the MSP430 EXP430FR2433 LaunchPads Both LaunchPads are equipped with a variety of peripherals and Ferroelectric Random Access Memory FRAM FRAM is a nonvolatile low power memory with functionality similar to flash memory

*Microcontroller Theory and Applications with the PIC18F* M. Rafiquzzaman,2018-01-02 A thorough revision that provides a clear understanding of the basic principles of microcontrollers using C programming and PIC18F assembly language This book presents the fundamental concepts of assembly language programming and interfacing techniques associated with typical microcontrollers As part of the second edition s revisions PIC18F assembly language and C programming are provided in separate sections so that these topics can be covered independent of each other if desired This extensively updated edition includes a number of fundamental topics Characteristics and principles common to typical microcontrollers are emphasized Interfacing techniques associated with a basic microcontroller such as the PIC18F are demonstrated from chip level via examples using the simplest possible devices such as switches LEDs Seven Segment displays and the hexadecimal keyboard In addition interfacing the PIC18F with other devices such as LCD displays ADC and DAC is also included Furthermore topics such as CCP Capture Compare PWM and Serial I O using C along with simple examples are also provided Microcontroller Theory and Applications with the PIC18F 2nd Edition is a comprehensive and self contained book that emphasizes characteristics and principles common to typical microcontrollers In addition the text Includes increased coverage of C language programming with the PIC18F I O and interfacing techniques Provides a more detailed explanation of PIC18F timers PWM and Serial I O using C Illustrates C interfacing techniques through the use of numerous examples most of which have been implemented successfully in the laboratory This new edition of Microcontroller Theory and Applications with the PIC18F is excellent as a text for undergraduate level students of electrical computer engineering and computer science

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

### **A TEXTBOOK OF MICROPROCESSORS AND MICROCONTROLLERS Theory and Applications** Na

Vikraman,2020-05-16 This book has been written for the second year BE B Tech students of Anna University with latest syllabus for ECE EEE CSE IT Bio Medical Mech Civil Departments also it is very useful for Diploma Arts Science Students The basic aim of this book is to provide a basic knowledge in Micorprocessors and Microcontrollers for engineering students

of degree diploma AMIE courses and a useful reference for these preparing for competitive examinations All the concepts are explained in a simple clear and complete manner to achieve progressive learning Two marks questions and answers Short Long answer questions are provided This book is divided into four chapters Each chapter is well supported with the necessary illustration practical examples and proper explanations

**MSP430 Microcontroller Lab Manual** James Kretzschmar, Jeffrey Anderson, Steven F. Barrett, 2023-05-23 This book is a practical reference for using Texas Instruments MSP430 microcontrollers It provides a series of hands on laboratory exercises The labs may be completed in a traditional laboratory setting or at home using the Digilent Analog Discovery 2 Test Instrument This book can be used as a reference for planning future projects using the MSP430 microcontroller The authors focus on applications of the main peripheral modules available on the MSP430 microcontroller CPU clock Basic Input Output Timer Analog to Digital Converter They also provide examples of how to develop Pulse Width Modulation signals and how to use Interrupts

*8051 Microcontrollers* David M. Calcutt, Frederick J. Cowan, G. Hassan Parchizadeh, 1998-09-08

**Microprocessor interface design** J. D.. Nicoud, 1991

**Microcontroller Theory and Applications** Daniel J. Pack, Steven Frank Barrett, 2008 For undergraduate students taking a Microcontroller or Microprocessor course frequently found in electrical engineering and computer engineering curricula This text provides the reader with fundamental assembly language programming skills an understanding of the functional hardware components of a microcontroller and skills to interface a variety of external devices with microcontrollers

**Fundamentals of Microcontrollers and Applications in Embedded Systems with PIC (Book Only)** Ramesh Gaonkar, 2007-01-08

*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 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 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 Microprocessor, Microcomputer and Their Applications A. K. Mukhopadhyay,2007 Microprocessor Microcomputer and their Applications 3 e in three parts covers the hardware software and the applications of microcomputers This book covers single chip microcomputers microcontrollers emphasizing on the architecture memory organization programming technique and a large number of programming examples Interfacing techniques have been explained clearly with the aid of diagrams charts and tables alongwith the input output devices and controlling and peripheral devices The book is intended for undergraduate and postgraduate students of Computer Science and Engineering Electrical Engineering Electronics and Allied fields of engineering and sciences

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