

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

J. D.. Nicoud



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 **Proceedings** American Society for Engineering Education, 1988 Computer Aided Engineering American Society for Engineering Education. Conference, 1985 **Proceedings** American Society for Engineering Education. Conference, 1988 **PESC '90 Record**, 1990 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 **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 *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 MSP430TM 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

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 micro 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

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

Design with PIC Microcontrollers John B. Peatman,1998-09 This book is directed towards students of electrical engineering and computer engineering at the senior level and toward practicing engineers The text develops design techniques for using microcontrollers i e single chip microcomputers It emphasizes microcontroller versus microprocessor e

g Pentium and Power PC chip issues

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