COURSE CODE : ECE313

COURSE TITLE : MICROPROCESSOR AND MICROCONTROLLERS

A

Time Allowed: 03:00 hrs

Max. Marks: 70

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.

PART A

Q1. a) Explain all the buses used in 8085 microprocessor?
b) Differentiate between Microprocessor and microcontroller.
c) Explain the LCD control pins.
d) What is IDE? Explain.
e) What is the function of Rs pin in LCD?
f) WAP in Arduino to control the intensity of LED automatically high to low without using any sensor.

[2 Marks]
[2 Marks]
[2 Marks]
[2 Marks]
[2 Marks]

g) Explain data types in Arduino.
h) Draw only Harvard Architecture.
i) WAP in Arduino to blink the LED connected at Pin 13 after 5 seconds.
j) Explain the working of HOLD and HLDA pin in 8085.

[2 Marks]
[2 Marks]
[2 Marks]
[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]

OR

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]

OR

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]

OR

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]

OR

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]

OR

b) (i) Interface six LED's with Arduino using Charlieplexing concept.
[5 Marks]
(ii) Differentiate between C and Embedded C.
[5 Marks]

-- End of Question Paper --

Microprocessor And Microcontroller Question Paper For Eee

L Cohen

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

2025-26 DFCCIL CBT-2 Executive Signal & Telecommunication Solved Papers & Practice Book YCT Expert Team , 2025 26 DFCCIL CBT 2 Executive Signal Telecommunication Solved Papers Practice Book 240 495 E This book contains 4 sets of previous year solved papers and 10 sets of practice book *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 **Computer Aided Engineering** American Society for Engineering Education. Conference,1985 *Proceedings* American Society for Engineering Education,1988 **Proceedings** American Society for Engineering Education. Conference,1988 *Modeling and Simulation* ,1990 PESC '90 Record ,1990 **Freshwater and Marine Aquarium** ,1993 **Computer & Control Abstracts** ,1996 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 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 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   *Digital Electronics & Microprocessor* Sachan,2019-09-08 In recent years Digital Electronics Microprocessor is being used extensively in computers microprocessor and very large scale integration VLSI design and digital signal processing research and many other things This rapid progress in Electronics Engineering has created an increasing demand for trained Digital System Designs personnel This book is intended for the undergraduate and postgraduate students specializing in Electronics Engineering Computer Science Engineering and Information Technology It will also serve as reference material for engineers employed in industry The fundamental concepts and principles behind Digital Electronics Microprocessor are explained in a simple easy to understand manner Each chapter contains a large number of solved example or problem which will help the students in problem solving and designing of Electronics system This text book is organized into Thirteen chapters Chapter 1 Number Systems and Boolean Algebra Chapter 2 Combinational Circuits Chapter 3 Sequential Circuits Chapter 4 Digital Logic FamiliesChapter 5 Memory Programmable Logic Chapter 6 Asynchronous Sequential Logic Chapter 7 Digital System Design Using Hardware Chapter 8 Digital System Design Using VHDL Chapter 9 Design of Fast Adder Chapter 10 Design of Fast MultiplierChapter 11 Basics of MicroprocessorChapter 12 Programing of MicroprocessorChapter 13 Micro Controller Its Applications The book Digital Electronics Microprocessor is written to cater to the needs of the undergraduate courses in the discipline of Electronics Communication Engineering Computer Science Engineering Information Technology Electronics Instrumentation Engineering Electrical Electronics Engineering and postgraduate students specializing in Electronics It will also serve as reference material for engineers employed in industry The fundamental concepts and principles behind Digital Electronics Microprocessor are explained in a simple easy to understand manner Digital Electronics Microprocessor also gives the possible experiments of digital logic design using VHDL and Hardware that can be done by students of B E B Tech M Tech and Ph D level Salient Features

Detailed coverage of Number Systems and Boolean Algebra Combinational Circuits and Sequential Circuits Comprehensive chapters on Digital Logic Families Memory Programmable Logic and Asynchronous Sequential Logic Detailed coverage of Digital System Design Using Hardware Digital System Design Using VHDL Design of Fast Adder and Design of Fast Multiplier Comprehensive chapters on Basics of Microprocessor Programing of Microprocessor Microcontroller and Its Application Each chapter contains a large number of solved example or objective type s problem which will help the students in problem solving and designing of digital system Clear perception of the various problems with a large number of neat well drawn and illustrative diagrams Simple Language easy to understand manner I do hope that the text book in the present form will meet the requirement of the students doing graduation in Electronics Communication Engineering Computer Science Engineering Information Technology Electronics Instrumentation Engineering and Electrical Electronics Engineering I shall appreciate any suggestions from students and faculty members alike so that we can strive to make the text book more useful in the edition to come **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 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 *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 **Microprocessor And Microcontroller-2nd Edn** R. Theagarajan,2004 The book is aimed at providing the students a detailed knowledge of programming of Intel 8086 Microcontroller Intel 8051 and interfacing of peripheral devices It is intended for students of Computer Electrical Electronics and Instrumentation engineering as well as for working professionals who wish to acquire knowledge in this area Apart from providing the necessary theoretical details programming examples are also included for most of the topics This book will help the reader to design his own microprocessor microcontroller based solutions for practical problems **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 **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

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