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.
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]
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[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 --

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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

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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

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