COURSE CODE : ECE313
COURSE TITLE : MICROPROCESSOR AND MICROCONTROLLERS

Max.Marks: 40

Time Allowed: 01:30 hrs

Read the following instructions carefully before attempting the question paper.
1. This question paper divided into two parts A and B.
2. Part A contains 5 questions of 2 marks each. All questions are compulsory.
3. Part B contains 3 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 number at the designated space.

PART A

Q1 a) What is the function of PC and SP of 8085.   [2 Marks]

b) What are the difference between Harvard and Von Neumann Architecture.   [2 Marks]
c) What is the function of ALE pin in 8085.   [2 Marks]
d) List the name of interrupts available in micro-controller 8051?   [2 Marks]
e) Explain DJNZ instructions of intel 8051 microcontroller?   [2 Marks]

PART B

Q2 a) Connect 8k EPROM and 4k RAM with 8085. The memory IC's available are 4kX8 EPROM   [10 Marks]
and 4kX4 RAM.

OR   [5 Marks]

b) (i) List few applications of microprocessor-based system   [5 Marks]
   (ii) What is an Operand?   [10 Marks]

Q3 a) Draw and explain block diagram of 8051 micro-controller in detail?

OR   [5 Marks]

b) (i) Test to see whether A has the value 45H. Is it does, send 99H to R0, otherwise, clear it.   [5 Marks]
                                                                             [10 Marks]

   (ii) Explain all the addressing mode for 8051.

Q4 a) Give the pin diagram of 8085 in detail.   [5 Marks]

OR   [5 Marks]

b) (i) Explain the LCD operations and its Pin description
   (ii) Discuss in detail Arithmetic instructions of 8051.

-- End of Question Paper --

Microprocessor And Microcontroller Question Paper 2012

Lauren Gardner

Microprocessor And Microcontroller Question Paper 2012:

   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

   Microprocessor and Microcontroller Saurabh Chaudhury,Risha Mal,2025-06-01 **2025-26 RRB JE Electronics & Allied Engineering Study Material 496 995 E.** YCT Expert Team , 2025 26 RRB JE Electronics Allied Engineering Study Material 496 995 E This book contains 10 topics of Electronics Engineering and Computer Science **Human Comfort and Security of Information Systems** Kadamula Varghese,Silvia Pfleger,2012-12-06 The Commission of the European Union through its Fourth Framework R D programme is committed to the development of the Information Society There is no doubt that there will be many radical changes in all aspects of society caused by the far reaching impact of continuing advances in information and communi cation technologies Many of these changes cannot be predicted but that uncer tainty must not stop us from moving forward The challenge is to ensure that these technologies are put to use in the most beneficial manner taking fully into account the rich cultural and linguistic backgrounds within the peoples of Europe We have a duty to ensure that the ultimate end users of the technology are involved in the development and application of that technology to help shape its use Without this active involvement designers will not understand the individual and organisational requirements of the users and the users will not understand the impact and applicability of the new technology Failure on either account will lead to a sense of resentment on the part of the users and a lost opportunity to improve the quality of human life The work sponsored by the Human Comfort Security sub domain of the ESPRIT programme has a central part to play in the creation of the Information Society lying as it does at the interface between the technology and the user *Book Review Index* ,2003 Vols 8 10 of the 1965 1984 master cumulation constitute a title index 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 Excercise 8 Descriptive Type Questions 9 Multiple Choice Questions **2012 13th International Workshop on Microprocessor Test and Verification** IEEE Staff,2012-12-10 **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 and Microcontroller* Atul P. Godse,Deepali A. Godse,2010 *2012 13th International Workshop on Microprocessor Test and Verification (MTV 2012)* ,2012 **Microcontroller Technology** Peter Spasov,2004 CD ROM contains source code and a special demo version of the THRSim11 simulator *Microprocessors and Microcontrollers* R. S. Kaler,2013-12-30 A complete textbook covering all aspects of microprocessors and microcontrollers This book is based on Microprocessor 8085 8086 and Microcontroller 8051 All other related microprocessors and microcontrollers such as 80186 80286 80386 Pentium 4 ARM and PIC are also discussed A review of important terms and concepts is given at the end of each chapter Each chapter also includes questions and problems Broadly the book covers The evolution of microprocessor digital concepts number systems and their conversion logic gates and combinational logic and circuits complements multiplexers demultiplexers Flip Flops counters registers analog digital conversion counters registers analog digital conversion Microprocessor 8085 and 8086 architecture pin configuration instructions set stack and subroutines addressing modes interrupts machine cycles and bus timings control signals peripheral I O instructions memory segmentation ag register minimum mode 8086 system and timings assembler directives and operators Interfacing devices data transfer schemes interfacing and I O devices programmable peripheral interface PPI programmable keyboard display interface Intel

8279 centronix parallel communication RS 232C UART programmable interval timer 8253 8254 8257 and 8259 Microprocessor applications seven segment LED display microprocessor based traf c control data acquisition systems analog to digital A D converter traf c signal controller digital to analog converter Microprocessor 80XXX architecture pin configuration instructions set addressing modes interrupts multitasking and comparison with different microprocessors Microcontroller 8051 MCS 51 family overview architecture basic registers counters and timers timer counter interrupts serial data input output addressing modes push and pop opcodes instructions set arithmetic operations programming and testing the design real time operating systems RTOS ARM AVR and PIC microcontrollers architecture programming model registers and ags exception and interrupt modes instructions set PIC microcontrollers PIC16F84 microcontroller EEPROM data memory PIC16CXX microcontrollers Embedded systems programming using Keil software and instruction sets for 8085 8086 and 8051 **Microcontroller Technology, the 68HC11** Peter Spasov,1999 Appropriate for courses in Introduction to Microprocessors Microcontrollers Interfacing Control Automation and Control Systems or Robotics Material is thoroughly updated and expanded to include the latest concepts and terminology Uses assembly language source code for the free ASll assembler the assembler of choice Five part organizational format covers I Introducing Microcontroller Technology II Software III Hardware IV Interfacing V The Microcontroller World *Microprocessors and Microcontrollers* Lyla. B. Das, *Microprocessors & Microcontrollers* Nagoorkani,2012 **Microprocessor, Microcontroller and Peripheral Data** Microprocessor Products Group, Microcontroller Division,1988 Vol 1 M68HC11 M6801 M6805 M6804 families Principles and Applications of Microcomputers Ming-Bo Lin,2016-09-05 Principles and Applications of Microcomputers is a comprehensive textbook which exemplifies the fundamental principles and applications of microcomputers with the most popular 8051 microcontroller and the Keil C51 MDK microcomputer development kit After reading this book you will be able to design various microprocessor or microcomputer based application systems The main features of this book are as follows Partition the MCS 51 instruction set into many pedagogic groups suitable for entry level readers and then illustrate them with an abundant number of examples Introduce MCS 51 C programming with most popular topics and then balance the programming of assembly language and C programs in the design of MCS 51 microcontroller applications Divide the MCS 51 system into the software model and the hardware model The software model is first introduced and then the hardware model follows This way greatly facilitates the reader to study a microcomputer system Discuss in detail features and applications of SRAM and Flash The design of memory modules and the timing consideration related to the MCS 51 are also involved Deal with the interrupt handling system reset and watchdog as well as power control and management of the MCS 51 system Detail I O concepts and structures serial parallel data transfer and control and ADC DAC circuits as well the structures and features of MCS 51 I O ports including serial port SPI and I2C Besides various timers counters are dealt with in depth Address the structures functions and applications of various timers counters and programmable timers Involve design

principles of keyboards circuits including both polling and interrupt methods as well as circuit modules and applications of LED and LCD displays Provide an abundance of review questions to each section to help readers evaluate their understandings about the topics introduced in the section This book can be used as the textbook for the following courses and others Assembly Language Programming Fundamental Principles of Microcomputers or Principles and Applications of Microcomputers *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 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 **Principles and Applications of Microcomputers** Ming-Bo Lin,2016-09-05 Principles and Applications of Microcomputers is a comprehensive textbook which exemplifies the fundamental principles and applications of microcomputers with the most popular 8051 microcontroller and the Keil C51 MDK microcomputer development kit After reading this book you will be able to design various microprocessor or microcomputer based application systems The main features of this book are as follows Partition the MCS 51 instruction set into many pedagogic groups suitable for entry level readers and then illustrate them with an abundant number of examples Introduce MCS 51 C

programming with most popular topics and then balance the programming of assembly language and C programs in the design of MCS 51 microcontroller applications Divide the MCS 51 system into the software model and the hardware model The software model is first introduced and then the hardware model follows This way greatly facilitates the reader to study a microcomputer system Discuss in detail features and applications of SRAM and Flash The design of memory modules and the timing consideration related to the MCS 51 are also involved Deal with the interrupt handling system reset and watchdog as well as power control and management of the MCS 51 system Detail I O concepts and structures serial parallel data transfer and control and ADC DAC circuits as well the structures and features of MCS 51 I O ports including serial port SPI and I2C Besides various timers counters are dealt with in depth Address the structures functions and applications of various timers counters and programmable timers Involve design principles of keyboards circuits including both polling and interrupt methods as well as circuit modules and applications of LED and LCD displays Provide an abundance of review questions to each section to help readers evaluate their understandings about the topics introduced in the section This book can be used as the textbook for the following courses and others Assembly Language Programming Fundamental Principles of Microcomputers or Principles and Applications of Microcomputers   **Microcontrollers** ,2004

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