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Question Paper Code : 41034

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2024.

Fourth Semester

Electrical and Electronics Engineering

EE 3404 — MICROPROCESSOR AND MICROCONTROLLER

(Regulations 2021)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. List the bits in the flag register of 8085 microprocessor.
2. State the power supply and typical clock frequency of 8085 microprocessor.
3. List the addressing modes of 8085 microprocessor.
4. State any two features of Stack.
5. Recall the function of TXD and RXD lines in 8251 USART.
6. List any four features of 8254 Timer/Counter.
7. Summarize the interrupts in 8051.
8. State the use of IDE for programming the controller.
9. List any four instructions of PIC microcontroller with its functions.
10. State the advantages of RISC microcontrollers.

PART B — (5 × 13 = 65 marks)

11. (a) Draw the functional block diagram of 8085 microprocessor and Explain the timing and control unit.

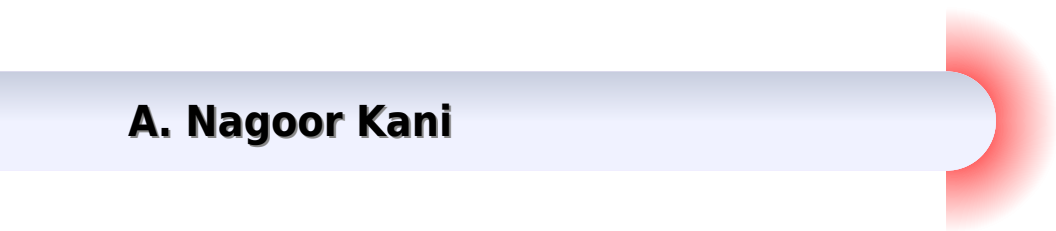
Or

- (b) Explain the following with respect to 8085 microprocessor

- | | |
|---------------------------------|-----|
| (i) Address and data bus | (4) |
| (ii) Status signals | (3) |
| (iii) Serial I/O signals | (3) |
| (iv) Hardware interrupt signals | (3) |

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A. Nagoor Kani



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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 **IEICE Transactions on Electronics** ,2002 *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 Eighth IEE International Conference on Developments in Power System Protection, 5-8 April, 2004, RAI Centre, Amsterdam, The Netherlands ,2004 PESC '90 Record ,1990 **The New York Times Index** ,1990

Microprocessors and Microcontrollers Raja Suresh, Dr. Ch. Hima Bindhu, S. R. Jena, 2022-09-07 This book aims to provide a broad description about MICROPROCESSORS AND MICROCONTROLLERS which are well known in various engineering fields It provides a logical method of explaining various complicated concepts and stepwise methods to explain important topics Each chapter is well supported with the necessary illustrations All the chapters in the book are arranged in a proper sequence that permits each topic to build upon earlier studies MICROPROCESSORS AND MICROCONTROLLERS are the important research areas The techniques developed in this area so far require to be summarized appropriately In this book the fundamental theories of these techniques are introduced The brief content of this book is as follows CHAPTER 1 INTRODUCTION OF MICRO PROCESSOR CHAPTER 2 MICROPROCESSOR 8086 CHAPTER 3 I O INTERFACE CHAPTER 4 INTERFACING ANALOG TO DIGITAL DATA CONVERTERS CHAPTER 5 ADVANCED INTERFACING CHAPTER 6 MICROCONTROLLERS CHAPTER 7 APPLICATIONS Microprocessors and Microcontrollers for Anna University A. Nagoor Kani, 2022-03-30 Primarily designed for the latest syllabus of Anna University **Microprocessors & Introduction**

to Microcontroller Atul P. Godse, Dr. Deepali A. Godse, 2020-12-01 The book is written for an undergraduate course on the 8085 and 8086 microprocessors and 8051 microcontroller. It provides comprehensive coverage of the hardware and software aspects of 8085 and 8086 microprocessors and 8051 microcontroller. The book uses plain and lucid language to explain each topic. A large number of programming examples is the feature of this book. The book provides the logical method of describing the various complicated concepts and stepwise techniques for easy understanding, making the subject more interesting. The book is divided into three parts. The first part focuses on the 8085 microprocessor. It teaches you the 8085 architecture, pin description, bus organization, instruction set, addressing modes, instruction formats, Assembly Language Programming (ALP), instruction timing diagrams, interrupts, and interfacing 8085 with support chips, memory, and peripheral ICs 8251, 8253, 8255, 8259, and 8279. It also explains the interfacing of 8085 with data converters (ADC and DAC) and introduces a temperature control system design. The second part focuses on the 8086 microprocessor. It teaches you the 8086 architecture, register organization, memory segmentation, interrupts, addressing modes, operating modes, minimum and maximum modes, interfacing 8086 with support chips, minimum and maximum mode 8086 systems, and timings. The third part focuses on the 8051 microcontroller. It teaches you the 8051 architecture, pin description, instruction set, programming 8051, and interfacing 8051 with external memory. It explains timers, counters, serial port, interrupts of 8051, and their programming. It also describes the interfacing of 8051 with keyboards, LCDs, and LEDs and explains the control of servomotor, stepper motors, and washing machine using 8051.

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