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Question Paper Code : 21266

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2012.

Sixth Semester

Electronics and Communication Engineering

680290040 — MICROCONTROLLERS AND RISC ARCHITECTURE

(Regulation 2008)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. How does the pin \overline{EA} of 8051 help in distinguishing the address range of program memory?
2. Show the circuit used for power down operation of 8051.
3. What are the data types and operand addressing supported in 8051?
4. The carry flag is originally set. The data present at the input port 3 is C5H. The data previously written to output port 1 is 30H calculate the port 1 contents after the execution of the following instructions.
MOV P1.3, C
MOV C, P3.3
MOV P1.2, C
5. How do you generate the data corresponding to the step angle required in stepped motor interfacing?
6. Find an application that uses the auto - reload mode of timer 2 in 8051. Justify your answer.
7. List the features of ARM architecture that are not shared by most other RISC architectures.
8. Give an example for pre-indexed addressing mode of ARM.
9. Tabulate the arm- exceptions with their vector address.
10. What are the common sources of memory fault allowed by ARM processors?

Microcontroller And Risc Architecture Question Paper

H Kauffman



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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 **Microprocessors, Microcontrollers and Embedded Systems** Mr. Rohit Manglik, 2024-03-21 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

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scientific events and its traditional role of serving as a meeting point between East and West EDCC 5 was the fifth in the series of these high quality scientific conferences In addition to the overall significance of such a pan European event this year's conference was a special one due to historic reasons The roots of EDCC date back to the moment when the Iron Curtain fell Originally two groups of scientists from different European countries in Western and Eastern Europe who were active in research and education related to dependability created a joint forum in order to merge their communities as early as in 1989 This trend has continued up to today This year's conference was the first one where the overwhelming majority of the research groups belong to the family of European nations united in the European Union During the past 16 years we observed that the same roots in all the professional cultural and scientific senses led to a seamless integration of these research communities previously separated artificially for a long time EDCC has become one of the main European platforms to exchange new search ideas in the field of dependability Real-Time Programming 1992 J.A. De La Puente, L.

Boullart, 2017-02-21 The 47 papers in this volume provide a useful reference tool for the state of the art research in real time programming FPGA ..., 1999 *F & S Index United States Annual*, 1995 **Electrical & Electronics Abstracts**, 1997

Documentation Abstracts, 1991 **Embedded Systems Programming**, 1999-07 **Circuit Cellar Ink**, 1993

Electronic Engineering, 1996 **Choice**, 2001 *Electronic Products Magazine*, 1988 Applied Science &

Technology Index, 1996 **The New York Times Index**, 1990 **ANALYSIS OF MICROCONTROLLERS: introduction to Microprocessors and Microcontrollers; CH:2 Architecture OF 8051; CH:3 8051 Instruction Set; CH:4 8051 Interfacing with Peripherals; CH:5 Sample Project with 8051 and Introduction to PIC Microcontrollers; CH:6 Introduction to ARM Architecture; CH:7 ARM and THUMB Instruction Sets; ANSWERS TO QUESTIONS; MODEL QUESTION PAPER; Index** J. P. KOTHARI, 2018 **Design of an 8 - Bit RISC Microcontroller by Using Harvard Architecture** Zeng Hoe See, 2005

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