

**Sixth Semester B.E. Degree Examination, June/July 2011**  
**Mechatronics and Microprocessor**

Time: 3 hrs.

Max. Marks:100

*Note: Answer any FIVE full questions, selecting  
at least TWO questions from each part.*

**PART – A**

1.
  - a. What are the objectives of Mechatronics? (05 Marks)
  - b. What are the advantages, disadvantages and applications of Mechatronics? (05 Marks)
  - c. Explain control system, their elements and functions with examples. (10 Marks)
  
2.
  - a. Explain the following:
    - i) Primary and Secondary transducer.
    - ii) Active and Passive transducer.
    - iii) Analog and Digital transducer. (06 Marks)
  - b. Explain "Hall Effect" and explain how this effect can be used to construct a sensor? (07 Marks)
  - c. Explain the working principle of the following (with sketch):
    - i) Eddy current proximity sensors.
    - ii) Capacitive proximity sensors. (07 Marks)
  
3.
  - a. What is the bouncing in mechanical switches? Explain the hardware solution to the bouncing problems. (08 Marks)
  - b. Differentiate between a diode, thyristors and transistor. (05 Marks)
  - c. Sketch and explain the working of a stepper motor. (07 Marks)
  
4.
  - a. Write the basic relationship of an operational amplifier. (08 Marks)
  - b. Explain the wheat stone bridge circuit used for strain measurement. (07 Marks)
  - c. Write a note on data acquisition. (05 Marks)

**PART – B**

5.
  - a. With the help of a neat sketch explain the organization of a micro processor and state the functions of each element of the microprocessor. (06 Marks)
  - b. In brief, explain the evolution of microprocessors. (04 Marks)
  - c. State Demorgan's theorems. Draw logic circuits. (04 Marks)
  - d. Explain different methods of representing negative number. (06 Marks)
  
6.
  - a. What are micro controllers? Distinguish between a micro processor and a micro controller. (06 Marks)
  - b. Define the following:
    - i) Write cycle
    - ii) State bus
    - iii) Interrupts
    - iv) Assembler (08 Marks)
  - c. Give the classification of micro controllers. (06 Marks)
  
7.
  - a. With the help of a neat sketch, explain the following:
    - i) Address bus.
    - ii) Data bus.
    - iii) Control signals (bus) (07 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and/or equations written eg. Q-11 = 50, will be treated as malpractice.

# Microprocessor Solved Question Papers

**Arturo Cuomo**



## **Microprocessor Solved Question Papers:**

Microprocessors & Microcontrollers Atul P. Godse, Dr. Deepali A. Godse, 2021-01-01 The book is written for an undergraduate course on the 8086 microprocessor and 8051 microcontroller. It provides comprehensive coverage of the hardware and software aspects of 8086 microprocessor and 8051 microcontroller. The book is divided into three parts. The first part focuses on 8086 microprocessor. It teaches you the 8086 architecture, instruction set, Assembly Language Programming, ALP, interfacing 8086 with support chips, memory and peripherals such as 8251, 8253, 8255, 8259, 8237 and 8279. It also explains the interfacing of 8086 with data converters ADC and DAC and introduces a traffic light control system. The second part focuses on multiprogramming and multiprocessor configurations, numeric processor 8087, I/O processor 8089 and introduces features of advanced processors such as 80286, 80386, 80486 and Pentium processors. The third part focuses on 8051 microcontroller. It teaches you the 8051 architecture, 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 data converters ADC and DAC, keyboards, LCDs, LEDs, stepper motors and sensors. **RRB JE**

**Navigator (PYQ & Practice Questions) CBT 2 (Civil Engineering)** Umesh Dhande, 2024-09-23 This comprehensive guide is designed to cater to the growing demand for accurate and concise solutions to RRB JE. This book contains 4102 fully solved questions including 15 PYQ RRB CBT 2 of Electrical Engineering 4 Shifts from RRB 2019, 8 Shifts from 2015 and 3 Shifts from 2014. The book's key features include: 1. Step by Step Solutions: Detailed, easy-to-follow solutions to all questions. 2. Chapter Wise and Year Wise Analysis: In-depth analysis of questions organized by chapter and year. 3. Detailed Explanations: Clear explanations of each question ensuring a thorough understanding of the concepts. 4. Simple and Easy to Understand Language: Solutions are presented in a straightforward and accessible manner. Digest of Papers - Comcon, 1991

**Record of Conference Papers**, 1977      **Digest of Papers**, 1977      **Digest of Technical Papers**, 2001

**Microprocessors and Their Applications** Jacques Tiberghien, Gunnar Carlstedt, Johan Lewi, 1979 Languages and language processors, Display systems, Performance improvements by microcode, Panel on development systems, Microprocessor utilisation in data base systems, Tools for microprogram development, Operating systems, Data logging, The use of microprocessors in communications, Special purpose processors. EUROCON 84, 1984      EUROCON, 1984      **A Collection of Technical Papers**, 1975      **Discussions and Closures of Abstracted Papers from the Winter Meeting, New York, January 29-February 3, 1978** IEEE Power Engineering Society, 1978      **Implementing Functions, Microprocessors and Firmware** Lutz Richter, 1981      **Proceedings of the Third Symposium on Microcomputer and Microprocessor Application, Budapest, 18-21 October, 1983**, 1983      **Teaching and Learning in an Era of Change**, 1997      **Sea Grant Abstracts**, 1986      **Automatic Control World Congress, 1987** International Federation of Automatic Control. World Congress, Rolf Isermann, 1988 Contains 60 research and survey papers on power systems analysis

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