

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.

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Table of Contents Microprocessor Solved Question Papers

1. Understanding the eBook Microprocessor Solved Question Papers
 - The Rise of Digital Reading Microprocessor Solved Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Microprocessor Solved Question Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Microprocessor Solved Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Microprocessor Solved Question Papers
 - Personalized Recommendations
 - Microprocessor Solved Question Papers User Reviews and Ratings

- Microprocessor Solved Question Papers and Bestseller Lists
- 5. Accessing Microprocessor Solved Question Papers Free and Paid eBooks
 - Microprocessor Solved Question Papers Public Domain eBooks
 - Microprocessor Solved Question Papers eBook Subscription Services
 - Microprocessor Solved Question Papers Budget-Friendly Options
- 6. Navigating Microprocessor Solved Question Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Microprocessor Solved Question Papers Compatibility with Devices
 - Microprocessor Solved Question Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Microprocessor Solved Question Papers
 - Highlighting and Note-Taking Microprocessor Solved Question Papers
 - Interactive Elements Microprocessor Solved Question Papers
- 8. Staying Engaged with Microprocessor Solved Question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Microprocessor Solved Question Papers
- 9. Balancing eBooks and Physical Books Microprocessor Solved Question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Microprocessor Solved Question Papers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Microprocessor Solved Question Papers
 - Setting Reading Goals Microprocessor Solved Question Papers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Microprocessor Solved Question Papers
 - Fact-Checking eBook Content of Microprocessor Solved Question Papers
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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