

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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