

Sixth Semester B.E. Degree Examination, December 2012

Mechatronics and Microprocessor

Time: 3 hrs.

Max. Marks:100

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

PART – A

1.
 - a. What is mechatronics? What are the objectives of mechatronics? (05 Marks)
 - b. Explain briefly the elements of a measuring system, with an example. (05 Marks)
 - c. Explain with the block diagram, how a microprocessor based control system is used to control the focusing and exposure of an automatic camera. (10 Marks)
2.
 - a. What is the difference between a sensor and transducer? (04 Marks)
 - b. What is Hall effect? Explain with a neat sketch the principle of Hall effect sensor. (06 Marks)
 - c. What are light sensor? Explain briefly the following: (10 Marks)
 - i) Photo emissive cell
 - ii) Photo conductive cell
 - iii) Photovoltaic cell
3.
 - a. What is an actuator? List the various types of actuators. (04 Marks)
 - b. Explain the terms bouncing and debouncing as applied to mechanical switches? Mention the various methods which can be to tackle the problem of bouncing in mechanical switches. (08 Marks)
 - c. What are stepper motors? State the advantages and applications. (08 Marks)
4.
 - a. Define signal conditioning. What are the necessity for signal conditioning? (05 Marks)
 - b. What is an operational amplifier (op-amp)? Why it is called an operational amplifier? (05 Marks)
 - c. What do you mean by the term filtering and filter? How are filters classified? (05 Marks)
 - d. List the functions of signal conditioning equipment. Explain the function of these equipments. (05 Marks)

PART – B

5.
 - a. Explain briefly the evolution of microprocessor. (06 Marks)
 - b. Represent the real numbers +16.5 and -16.5 in a 32 bit memory using floating point notation. (06 Marks)
 - c. Explain the concept of overflow and underflow with an example. (08 Marks)
6.
 - a. Enumerate the difference between microprocessor and microcontroller. (04 Marks)
 - b. What is a clock? Why a clock is necessary in a microprocessor? Draw the ideal and non-ideal clock. (06 Marks)
 - c. What is meant by instruction set? Discuss the five group of instruction set with an example (for each group). (10 Marks)
7.
 - a. Draw the functional block diagram of the Intel 8085 microprocessor. (04 Marks)
 - b. Explain with a block diagram the flow of instruction word and flow of data word in a microprocessor. (12 Marks)
 - c. What are the functions of CPU? (04 Marks)
8. Write short notes on the following:
 - a. Assembly language programming
 - b. Fetch cycle and write cycle
 - c. System timing
 - d. Character representation
 (20 Marks)

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