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B.E / B. Tech (Full Time) DEGREE END SEMESTER EXAMINATIONS, APRIL/MAY 2013

ELECTRONICS AND COMMUNICATION ENGINEERING

_____ Semester

3

EC 372 – MICROPROCESSORS & ITS APPLICATIONS

(REGULATIONS 2004)

Time: 3 Hours

Maximum Marks: 100

Answer ALL Questions

Part – A (10 x 2 = 20 Marks)

1. How many registers are available in the 8085 microprocessor?
2. What is meant by "Interrupt"?
3. What is the use of the instructions "LDA" and "STA"?
4. Give two examples for Indirect addressing mode.
5. Write any one application of RS 232.
6. What is the basic difference between microprocessor and microcontroller?
7. Write the use of 8251.
8. Define: Direct Memory Access.
9. Write any two applications of stepper motor interface.
10. Write an ALP for adding two 8 bit numbers.

Part – B (5 x 16 = 80 Marks)

11. (a). Explain the architecture of 8085 microprocessor with neat block diagram.
12. (a). Discuss in detail about various addressing modes of 8085 with suitable example.

or

12. (b). Explain the Memory and I/O interfacing of 8086.

13. (a). Explain the Architecture of 8051 Processor.

or

13. (b). Explain the salient features of 16 bit microcontroller.

14. (a). Discuss in details about Analog to Digital and Digital to Analog conversion.

or

14. (b). Explain the working principles of Programmable interrupt controller.

15. (a). Explain how traffic lights are controlled using microprocessor and microcontroller.

or

15. (b). Explain the details of microprocessor based elevator controller.
