Code: CS4T5

## II B. Tech - II Semester - Regular Examinations - JUNE 2015

## MICRO PROCESSORS & INTERFACING (COMPUTER SCIENCE & ENGINEERING)

Duration: 3 hours

Marks: 5x14=70

Answer any FIVE questions. All questions carry equal marks

- 1 a) Explain the features and drawbacks of 8085

  Microprocessor. 7 N
  - b) With suitable examples, explain how the conditional flags of 8086 microprocessor are affected?

    7 M
- 2 a) Develop an ALP to count the number of '1's in an 8-bit binary number.

  7 M
  - b) Write an ALP to find the frequency of occurrence of a given byte "OAH" in a string.

    7 M
- 3 a) Explain the function of the following signals of 8086.

7 M

- i) BHE ii) MN/MX iii) TEST iv) LOCK
- b) Write about the significance of interfacing of 8257 to 8086 microprocessor.

  7 M

4 a) Explain the control word format of 8255 in I/O mode we suitable examples.	vith 7 M
b) With a neat sketch, write about interfacing of A/D converter to 8086 using 8255.	7 M
5 a) Draw and Explain functional block diagram of 8259 PI	C.
	7 M
b) Explain the significance of dedicated interrupts of 8086	<b>5.</b>
	7 M
6 a) With a neat functional block diagram, explain 8251 US	ART
Architecture.	7 M
b) Explain the speed enhancement methods used in serial	
communication standards.	7 M
7 a) Describe the function of four major processing units in	a
80286 microprocessor.	7 M
b) Describe the major improvements that 80486 processor	r has
over 80386 processor.	7 M
8 a) Write a note on the evolution of Pentium Processors?	7 M
b) List out the features of Core Duo processor architecture	e?

7 M