(06 Marks)

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Fourth Semester B.E. Degree Examination, Dec.2015/Jan.2016

		Fourth Semester B.E. Degree Examination, Dec.2015/Jan.201 Microprocessor	6
Time: 3 hrs. Max. N			ırks:100
Note: Answer any FIVE full questions, selecting atleast TWO questions from each pa			ich part.
1	a. b. c.	Explain with neat block diagram the working principle of 8086 Architecture.	(06 Marks) (08 Marks) (06 Marks)
2	b.	Explain the execution of PUSH and POP Instruction, with respect to Stack A mode.	(08 Marks)
3		Explain the following Instructions with examples: i) XLAT ii) LEA iii) CMP iv) SAHF. What are Assembler Directives? Explain any four directives with suitable examples	(06 Marks) (08 Marks) es. (06 Marks)
4	b.	Discuss the following instructions with examples: i) SHR ii) SHL iii) RCR iv) TEST.	(08 Marks) (06 Marks) (06 Marks)
5	a. b.	Explain the basic rules for using Assembly language with C/C++ for 16 applications with the help of examples.	(06 Marks) bit DOS (08 Marks) (06 Marks)
6	b.	With neat diagram, explain minimum mode of 8086 system. Explain Bus timings for Read and Write operation for minimum mode of 808	(08 Marks) (07 Marks) 36 system. (05 Marks)
7		Design an 8086 based system with the following specifications:	(08 Marks)
	c.		(08 Marks) (04 Marks)
8	a.	Explain with neat block diagram the working operation of 8255 PPI.	(08 Marks)

b. Discuss the basic DMA controller operation in Microprocessor system.

c. Explain any three types 8086 Interrupts.