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USN		10	CS45	
Fourth Semester B.E. Degree Examination, June/July 2014 Microprocessor				
Time: 3 hrs. Note: Answer any FIVE full questions, selecting atleast TWO questions from each part. Max. Marks: 100				
PART – A				
1	a. b.	Explain in details with a neat figure the working of the internal architecture of the 80	Marks) 086MP.	
	c.		Marks) Marks)	
2.	a. b.	Explain any five addressing modes in detail with examples that are supported in 8086	Marks) MP. Marks)	
	c.		Marks)	
3	a. b.	Write 8086 ALP to add 10 non-negative data items using string instructions. (06 Explain the following instructions with examples: i) CMP ii) LAMF iii) XCHG iv)LEA v) PUSH AX vi) LDS DI, [3000h]. (06	Marks) Marks)	
·Z	c.	Explain with examples the following assembler directives (any four):	3 Marks)	
4	a.	Explain the various string manipulation instructions with examples. (06	Marks)	
	b.	Explain the following instructions with examples any four: i) DAA ii) MUL iii) ADC iv) SHR v) RCL. (08	3 Marks)	
	c.		Marks)	
	PART – B			
5	a. b.		Marks)	

- program which reads data in a program in one module which is then used by another module.

 (06 Marks)
- c. Differentiate between macros and procedures.

(04 Marks)

- 6 a. Describe in detail the use of the following signals:
 - i) ACE ii) RESET iii) NMI iv) HOLD v) MN/MX vi) QSI and QSQ. (06 Marks)
 - b. Explain in detail with a neat figure demultiplexing of address and data lines in 8086.

(06 Marks)

c. Explain with a neat figure the working of 8086 in MIN mode configuration.

(08 Marks)

- 7 a. Differentiate between memory mapped 1/0 and 1/0 mapped 1/0. (04 Marks)
 - b. Design an 8086 based system to interface with i) 64K byte EPROM; ii) 64K byte RAM. Assume RAM is connected at 30000h and EPROM at F0000h. (08 Marks)
 - c. Explain how a 3-8 line decoder could be used to interface eight 8K memory chips. (08 Marks)
- **8** a. Explain different signals of 8255 PP and control words.

(08 Marks)

b. Explain with a neat diagram the interfacing of stepper motor to 8086 using 8255 in detail.

(06 Marks)

c. Explain the working of different blocks of 8254 PIT with a neat figure.

(06 Marks)