## USN

## Sixth Semester B.E. Degree Examination, Dec.2016/Jan.2017 Microprocessors

Time: 3 hrs.

Note: Answer FIVE full questions selection

Max. Marks: 100

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

## PART - A

		$\underline{PART} - A$	
actic	1	a. Draw the block diagram of internal architecture of poor	
o e carea as maipractice.		importance of various registers.	y indicate the
Ĕ		b. Explain the various addressing modes of 8086 with examples.	(10 Marks)
<del>4</del>		2. What are assembler directive 2.5.	(10 Marks)
ž		i) OFFICE in the control of the following directives:	<b>S</b> .
₹	Į	1) OFFSET ii) ASSUME iii) EXTRN iv) GROUP	(08 Marks)
		i) HOLD	(oo marks)
: :	C		(06 Marks)
)	C	what is intalled by segment override profix? Fruit	(04 Marks)
•		the addressing modes of the following instructions	(or marks)
j 3		- 110M DX 13H, SP	(02 Marks)
	5 a	- The following string instructions	( = = = = = = = = = = = = = = = = = = =
	b	I) MOVSB II) REP III) STOCK - \ CC + CT	(10.37 )
	U	Write all ALP to check whether the given string to the	(10 Marks)
	c.	message as "PALINDROME" or "NOT PALINDROME".	(06 Marks)
		and procedures.	(04 Marks)
4		The south and and hardware interested the coope	
	b.	Explain the sequence of operations performed by 8086 MP when an interrupt is	(08 Marks)
	c.	Write an ALD in 2020	(06 Marks)
	٠.	Write an ALP in 8086 read a character from keyboard and print its ASCII screen using DOS interrupts.	value on the
		asing DOS interrupts.	(06 Marks)
5	•	With mass $PART - B$	·
3	a.	With necessary hardware interface, write a program to	revolution in
		anti clockwise direction and one revolution in clockwise direction. Assume step size is 1.8°.	enner motor
	b.	Explain I/O manned I/O = 1	(10 Marks)
	c.	Transfer in the manual in the	(04 Marks)
_		Explain different types of key switches used in a computer.	(06 Marks)
6	a.	Draw the formats of status and control registers of 8087 and define each bit.	
	b.	instructions of 808 / co-processor with suitable and the	(08 Marks)
			(06.84 + )
	c.	Explain the various data types that 8087 can handle. Give examples.	(06 Marks)
7	a.	Explain the features of USB	(06 Marks)
	b.	Write and explain the timing diagram of memory read operation in 8086 processo in minimum mode.	(06 Marks)
		in minimum mode.	r operating
	c.	Show the interface between 8086 and printer. Explain the signals of importance.	(06 Marks)
8	a.	Explain memory organical access	(08 Marks)
-	b.	Explain memory organization of 80386 processor.  Briefly explain the special resist.	(08 Marks)
	c.	Briefly explain the special registers found in 80386 processor.  Explain the following with respect to P.	(06 Marks)
	-	Explain the following with respect to Pentium processers  i) Branch prediction logic  ii) Cache structure	
		· · · · · · · · · · · · · · · · · · ·	(06 Marks)
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