## Paper code\_U219-123 (BE-F&FS)

Total No. of Questions - [8]

Total No. of Printed Pages 02

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## DECEMBER 2019/ENDSEM - Backing exam

## S. Y. B. TECH. (COMPUTER ENGINEERING) (SEMESTER - I)

COURSE NAME: COMPUTER ORGANIZATION AND MICROPROCESSORS TECHNIQUES COURSE CODE: CSUA21173

	/DA/N/NDDA		
	(PATTERN	1 2017)	
Time: [2 Hours] [Max. Mar			ks: <b>50</b> ]
(*) 1) 2) 3) 4)	Instructions to candidates: Answer Q.1, Q.2, Q.3, Q.4, Q.5 OR or Figures to the right indicate full mature of scientific calculator is allowed Use suitable data where ever required.	arks. ed	
Q.1	a) a) Solve the following Multiplication u Multiplicand = 7 Multiplier =3	sing Booth's Algorithm	[6]
	OI	<del></del>	
	b) Solve Division of the following numl Algorithm: Dividend=1011, Divisor=	pers using restoring Division =0011	[6]
Q.2) a) Mention I/O commands in detail  OR			[6]
	b) Explain block diagram of I/O Modul		[6]
Q.3	a) Draw Instruction Cycle State Diagra OR		[6]
	b) What is user visible registers? List a	nd explain it types in detail	[6]
Q.4)	a) List and explain 8086 Flag register v		[4]
	b) Match the pairs:		[4]
	1. Immediate Addressing	A. MOV AX, [BX+DI+08]	[
	2. Based Indexed with Displacement Mode	B. MOV CX, [BX]	
	3. Register Indirect Addressing Mode	C. ADD AX,[1592H]	
	4. Direct Addressing Mode	D. MOV AX,2387H	

Q.5)		a)	Explain paging in detail	[6]
		b)	List various Descriptor tables and Explain any one of them.	[4]
		c)	State the rules for privileges.	[4]
			OR	
Q.6)	a)	Diff	Ferentiate between Segmentation in 80386 and 8086	[6]
	b)		various types of privileged levels and Explain	[4]
	c)		plain 3 fields of linear address.	[4]
Q.7)	a)	Exp	plain CMP and DEC instruction.	[6]
	b)	Exp	lain the use of Procedure with an example	[4]
	c)		te an 64 bit Assembly Program to Display the message 's a LOVELY Day" (include comments in the code)	[4]
Q.8)	a)	Exp	olain MOV and IN instruction	[6]
	b)	List	and explain the various sections in an assembly code for NASM	[ [4]
	c)		te an 64 bit assembly language macro 'scall' which can be used accept or display any message (include comments in the code).	[4]

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