							T				Code No. : 3130)4
	1	VASA	VIC	OLL	EGE	OF I	ENG	INI	ER	ING (Autonomou	s), HYDERABAD	
		В.	E. (E.	C.E.) I	II Ye	ar I-	Semo	ester	(M	ain) Examinations,	Nov./Dec2016	
	Tr:	e: 3 h			Mici	opr	oces	sors	and	Microcontroller		
	1 im	e: 3 no		te: An	swer A	ILL q	uesti	ons i	n Pa	rt-A and any FIVE fi	Max. Marks: 70	
						-		,		= 20 Marks)		
	 Differentiate between Maximum and Minimum modes of 8086. Mention the advantages of segmented memory in 8086. 											
	3.	Defin	e assen	ibler d	irectiv	e. Ex	plain	any	two v	vith suitable example		
	4.	Desci	ribe the					ples				
	5.	Detai	a) XI			b) DA		025	S in I	O mode.		
	6.		y sketc			_						
	7.		l the Ti			_						
	8.		ribe the	functi	ons of		of 80					
	9.	List t	he techi	niques	of dou	bling	the b	aud r	ate ir	serial communicatio	n using 8051 microcontroller.	
	10.	Defir	ne an In	terrupt	. List t	he in	terrup	ots su	ppor	ted by 8051 microcon	ntroller with their addresses.	
						1	Part-l	B (5	× 10	= 50 Marks)		
	11.	a) Di	raw and	expla	in the	archit	ectur	e of	8086			[8]
		b) W	rite the	classi	fication	n of in	nstruc	ction	set o	f 8086 with example:	S.	[2]
	12.	a) W	rite an	ALP to	o find	avera	ge of	10 n	umb	ers in an array using 8	3086 microprocessor.	[5]
		b) Ez	kplain a	bout d	ebugg	ing to	ols.					[5]
	13.	a) In	terface	the fol	llowing	g Men	nory	ICs	with	8086		[5]
		i)			EPRO		-	,				
		b) In			SRAM		_			am to generate a tria	ngular waveform.	[5]
	14									ory organisations of		
	14.		xplain t								6031.	[5]
		,								031.		[5]
	15.		xplain t									[4]
		b) In	terface	LCD 1	to 805	and	write	a pr	ograi	n to display a charact	ter.	[6]
	16.	a) D	raw and	l expla	in the	Memo	ory re	ad ti	ming	diagram of 8086 in n	ninimum mode configuration.	[5]
		b) E	xplain t	he stri	ng han	dling	instr	uctio	ns of	8086.		[5]
	17.	Writ	e short	notes	on any	two o	f the	follo	wing	:		
		a)	USA	RT in	terfaci	ng wi	th 80	86.				[5]

c) Stepper Motor Interfacing.

b) Write a program to transmit the character "S" serially at a baud rate of 9600 using 8051 microcontroller (Assume crystal frequency =11.0592 MHz).

[5]