Hall Ticket Number :						
Code: 1G363						R-11 / R-1
Code. 16303						

III B.Tech. II Semester Supplementary Examinations December 2017

Microprocessors and Interfacing

(Electronics and Communication Engineering)

1.	a)	Draw the internal block diagram of 8086. Explain the function of each block in detail.								
	b)	With relevant pin diagram explain the maximum mode operation of 8086.								
2	٥)	Evaloin the following instructions of 9096 processor								
۷.	a)	Explain the following instructions of 8086 processor. i) INTO ii) IDIV iii) TEST iv) RCR v) RET	10M							
	b)	Write a program to sort an array in descending order.	4M							
3.	a)	Discuss about three modes of operations of 8255 with relevant configuration diagrams. 7								
	b)	,								
		continuously in clockwise direction. 7								
4.	a)	a) Explain and Draw a block diagram to interface two 16K X 8 SRAM (62128) to the 16-bit								
		data bus of 8086 based system. Design the address decoder for the address range from								
	b)	00000H - 07FFFFH for both the SRAMs. Explain the need and importance of DMA.								
	D)	Explain the need and importance of DIVIA.	4M							
5.	a)	n) What is the interrupt vector table? Draw and explain the interrupt vector table for 8086.								
	b)	b) Briefly explain about DOS and BIOS interrupts.								
6.	a)	a) Explain about different operating modes of 8253.								
	b)	Explain the architecture and interfacing of keyboard controller.	7M							
7	a)	Draw the interface circuits for data conversion from TTL to RS 232 conversion.	8M							
٠.	b)	Distinguish between Asynchronous and Synchronous data transfer schemes.	6M							
	5)	Distinguish Settlesh Asyrichiene and Cynonichod data transfer sentences.	OIVI							
8.	a)	Briefly explain the salient features of 80386.	7M							
	b)	Explain Real and protected mode segmentation and paging.	7M							
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