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	I No. Total No. of Pa	ıges : 01	
Total No. of Questions: 08 M.Tech. (Microelectronics) (Sem1) ADVANCED MICROPROCESSOR AND EMBEDDED SYSTEM Subject Code: ME-815 Paper ID: [E0970]			
Time: 3 Hrs. Max. Max. Max. Max. Max. Max. Max. Max		arks : 100	
INST 1. 2.	TRUCTIONS TO CANDIDATES: Attempt any FIVE questions out of EIGHT questions. Each question carries TWENTY marks.		
Q1.	a) Define data communication. What is the difference between serial a communication?	nd paralle (10)	
	b) Discuss about the D/A interface in microprocessor in detail.	(10)	
Q2.	a) Briefly discuss about instruction set and mnemonics in microprocessor.	(10)	
	b) Discuss about registers in 8086 microprocessor in detail,	(10)	
Q3.	Define addressing modes. Explain in detail the various addressing modes considering two suitable examples each.	of 8086 by (20)	
Q4.	a) What are interrupts? Explain the hardware and software interrupts in detail.	(10)	
	b) Draw and explain the architecture of Pentium processor.	(10)	
Q5.	a) Explain the new instructions added to the 80186 in detail.	(8)	
	b) Discuss about examples of embedded controllers in detail.	(12)	
Q6.	Discuss the architecture of 8086 in detail with a suitable diagram.	(20)	
Q7.	a) Discuss about the serial interface and UART in detail.	(10)	
	b) Explain in detail special microprocessor I/O devices.	(10)	
Q8.	Write a short note on following:		
	a) Memory subsystem in 80186	(7)	
	b) PSW	(7)	
	c) GPR's	(6)	