## SE/EXTC/Sem-II CBSGS/MP

Q.P. Code: 545902

(3 Hours)

[ Total Marks:80

N.B.: (1) Q l is compulsory. Solve any 3 questions out of remaining

1.	(a) Write features of Pentium microprocessor.	4
	(b) Differentiate between I/O mapped I/O and Memory Mapped I/O of	8086. 4 3
	(c) Describe in brief architecture of 8085 microprocessor.	40
	(d) Sketch read and write bus cycle of 8086 with example.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	(e) Explain in brief about programmable interval timer 8254.	(5) 4
2	( ) D	8086. 4 5 4 5 4 mples 10
2.		mples.
	(b) Explain with suitable examples the following instructions of 8086.  i) MOVSB ii) LEA iii) ROL iv) CLC v) CBW	27 10
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3.	(a) Write an assembly language program of 8086 to add two 320bit nu	imbers and 10
	also draw Flowchart.	
	(b) Discuss the functions of general purpose registers of 80%. Explain the	he function 10
	of each register and instruction support for these furctions.	
	4	
4.	(a) Describe the function of following pins in 8086 Microprocessor in	maximum 10
	mode of operations.	1
	1) TEST 2) RQ/GTO 3) RQ/GT1 4) QS0 and QS	Ι
	5) S0, S1, S2 (b) Explain pin diagram of ADC 0808/0809 and method of interfacing	to 8086 10
	microprocessors with a suitable example.	10 0000
	microprocessors with a suitable example.	
5.	Design 8086 microprocessor based system using minimum mode with the	e following 20
	specifications.	8
	(i) 8086 microprocessors working at 10 MHz.	
	(ii) 128Kb EPROMusing 32 k Devices.	
	(iii) 64 Kb SRAW using 16 k devices.	
	Clearly show memory map with address range. Draw the neat s	chematic.
	1 P	Discourse and the second
6.		8086 10
	microprocessor with a suitable example.	10
	(b) Describe in brief and compare architecture of 80286 and 80486 micro	processors. 10
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