Roll	No.	
		MICROPI

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MICROPROCESSOR & INTERFACING

Paper-ES-301A

Time Allowed: 3 Hours]

[Maximum Marks: 75

Note: Attempt five questions in all, selecting at least one question from each Unit. All questions carry equal marks.

UNIT-I

- (a) How 8086 CLK and RESET signals are generated using 8284? Explain in detail?
 - (b) Discuss the working of EU and BIU of 8086 Microprocessor. 6
- (a) Draw and explain the relevant pin diagram for 8086 in minimum mode.
 - (b) Discuss the WAIT state generation in 8026 Microprocessor. 6

UNIT-II

- Interface the 8086 Microprocessor with two 16K × 16 EPROM chips and two 16K × 16 RAM chips. Draw the necessary block diagram for the support of your calculation.
- 4. Draw and discuss the read and write cycle timing diagram of 8086 in minimum mode.

UNIT-III

- 5. (a) Write as assembly language program to find any power of any number.
 - (b) Discuss the following assemble directives:
 - (i) ASSUME.
 - (ii) SEGMENT.

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6.	What do you mean by instruction format? Explain the following instruction with the help of suitable example:								
		ADC		LEA	(iii)	PUSH	(iv)	INC	
	(iv)	JNZ.							
				UNIT-I	V				
7.	(a) Design 16 bit I/O port using 8255 and interfaces it with 8086 using I/O addressing.								
	(b) Explain with a neat diagram the interfacing of stepper motor to 8086 using 8255 in detail.								
8.	(a)	Explain the diagram.	struc	cture of 8086	interru	ipt vector to	able witl	h neat 6	
	(b)	Discuss DM	A wit	h the help of lo	ock diag	gram.		9	