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III B.Tech. II Semester Supplementary Examinations May / June 2024

Microprocessor & Interfacing	024		
(Computer Science and Engineering)			
Max. Marks: 70 Time	e: 3 H		
Answer any five full questions by choosing one question from each unit (5x14 =	70 Mc	arks)	
	Marks	СО	BL
UNIT-I			
With the help of block diagram and timing diagrams explain the minimum	4 48 4	004	•
mode of 8086 microprocessor.	14M	CO1	2
OR OR		004	_
2. a) Discuss the features of 8086.	7M	CO1	2
b) Describe the flag register of 8086.	7M	CO1	2
UNIT-II			
Explain stepper Motor function and Write a program for stepper motor forward and backward retains	1 4 1 1	CO2	6
forward and backward rotation.	14M	CO2	6
OR A a) Justify latches and buffers used for interfacing	6M	CO2	5
4. a) Justify latches and buffers used for interfacing			5 1
b) Describe the interfacing of D/A convertor with a neat sketch.	8M	CO2	1
LIAUT III			
UNIT-III UNIT-III 5. With neat sketch explain the architecture of 8259A PIC	14M	CO3	2
OR	14111	CO3	2
	1.41.4	CO2	2
6. Draw the architecture of 8257.Explain about it.	14M	CO2	2
LIMIT IV			
7. Summarize each pin function of RS232	14M	CO2	2
OR	14111	CO2	۷
8. a) Construct one sample program for serial data transmission.	7M	CO2	3
b) Describe the Synchronous transmission and reception schemes of 8251 in	/ IVI	002	3
detail	7M	CO2	1
			•
UNIT-V			
9. Explain the salient features of 80386	14M	CO4	2
OR			_

Draw the architecture of a Pentium processor, and list out some salient features of Pentium and Pentium pro processors. 10.

14M CO4 1