TED (15/1	(9) - 4151
(Revision	-2015/19

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DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/ COMMERCIAL PRACTICE – NOVEMBER – 2022

MICROPROCESSORS AND INTERFACING

(Maximum Marks : 100)	(Time : 3 hours)
PART – A	
(Maximum Mark	s: 10)

- Marks
- I. Answer all questions in one or two sentences. Each question carries 2 marks.
 - 1. Define microprocessor
 - 2. List any two string instructions.
 - 3. What is vectored interrupt.
 - 4. List any two features of 80386.
 - 5. What is pipe lining. (5x2=10)

PART-B

(Maximum Marks: 30)

- II. Answer any five of the following questions. Each question carries 6 marks.
 - 1. Draw the pin diagram of 8086.
 - 2. Describe the flag register in 8086.
 - 3. Explain any three shift and rotate instructions with example.
 - 4. Write a short note on macro.
 - 5. Discuss about priority of interrupts.
 - 6. Explain the BSR mode of 8255.
 - 7. Explain multicore processing. (5x6=30)

PART – C

(Maximum Marks : 60) (Answer **one full** question from each unit. Each full question carries 15 marks)

UNIT – I

III.	Explain the architecture of 8086 with a neat diagram.	(15)
	OR	
IV.	(a) Explain maximum mode configuration in 8086.	(9)
	(b) Write any three addressing modes of 8086.	(6)
	UNIT – II	
V.	(a) Write an assembly language program to add two 16 bit numbers.	(9)
	(b) Explain any three arithmetic instructions with example.	(6)
	OR	
VI.	(a) List different jump instructions in 8086.	(6)
	(b) Write an assembly language program to find the factorial of a number.	(9)
	UNIT –III	
VII.	(a) Explain the internal block diagram of PPI.	(9)
	(b) Describe the hardware Interrupts in 8086.	(6)
	OR	
VIII	(a) Explain Programmable interrupt controller.	(9)
	(b) Discuss about dedicated interrupts.	(6)
	UNIT – IV	
IX.	(a) Describe the protected virtual addressing mode of 80386.	(9)
	(b) List the features of Pentium processor.	(6)
	OR	
X.	(a) Explain superscalar architecture.	(9)
	(b) Describe MMX technology.	(6)
