TED (15/19) 6041 (Revision-2015/19)

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Reg.No..... Signature.....

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/ COMMERCIAL PRACTICE, APRIL - 2025

ADVANCED MICROPROCESSORS

[Maximum marks: 100]

PART – A Maximum marks: 10

- I. (Answer *all* the questions in one or two sentences. Each question carries 2 marks)
 - 1. State the function of Zero flag in 8086.
 - 2. Define assembler.
 - 3. Define PVAM of 80386.
 - 4. List limitations of single core processor.
 - 5. Define multicore processing.

PART – B

Maximum marks: 30

- **II.** (Answer any *five* of the following questions. Each question carries **6** marks)
 - 1. Explain memory segmentation in 8086.
 - 2. Explain register set of 8086.
 - 3. Explain interrupts in 8086.
 - 4. Explain Assembler directives.
 - 5. List any 6 features of Pentium-Pro processor.
 - 6. Explain operating modes of 80386.
 - 7. List the advantages of multicore technology.

PART – C Maximum marks: 60

(Answer *one full* question from each unit. Each full question carries 15 marks)

UNIT – I

III. (a) Explain minimum mode configuration of 8086. (8)
(b) Explain internal architecture of Intel 8086 with diagram. (7)

[Time: 3 Hours]

(5 x 2 = 10)

 $(5 \times 6 = 30)$

OR			
IV.	(a)	List main features of Intel 8086.	(8)
	(b)	Explain functions of HOLD, HLDA, READY pins in 8086.	(7)
UNIT – II			
V.	(a)	Explain any 4 types of addressing modes in 8086.	(8)
	(b)	Write an assembly language program to multiply two 8 bit numbers.	(7)
OR			
VI.	(a)	List data transfer instructions in 8086.	(8)
	(b)	Write an assembly language program to add two 8 bit numbers.	(7)
UNIT - III			
VII.	(a)	List the key features of Intel 80386.	(8)
	(b)	Explain paging mechanism in 80386.	(7)
OR			
VIII	. (a)	List the main features of Pentium processor.	(8)
	(b)	Explain internal architecture of Pentium processor with diagram.	(7)
UNIT – IV			
IX.	(a)	Explain single core and multicore processors with block diagram.	(8)
	(b)	Explain homogeneous and heterogeneous multicore processors.	(7)
OR			
Х.	(a)	Explain internal architecture of Intel core 2 duo.	(8)
	(b)	Compare core i3, i5 and i7 processors.	(7)
