



TED (10) – 5040

Reg. No.....

(REVISION — 2010)

Signature .....

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/  
MANAGEMENT/COMMERCIAL PRACTICE — OCTOBER, 2018

ADVANCED MICROPROCESSORS

[Time : 3 hours

(Maximum marks : 100)

PART — A

(Maximum marks : 10)

Marks

I Answer *all* questions in one or two sentences. Each question carries 2 marks.

1. List the segment registers of 8086.
2. Define Assembler.
3. List the features of Pentium Pro.
4. Define Interrupt.
5. List the different operating modes of 80386 processor. (5×2 = 10)

PART — B

(Maximum marks : 30)

II Answer any *five* of the following questions. Each question carries 6 marks.

1. Explain the flag register of 8086 with diagram.
2. Write notes on hardware and software interrupts of 8086.
3. Describe Interrupt vector table.
4. Explain Assembler directives.
5. Compare 80286 & 80386.
6. Write notes on Data & Instruction cache.
7. Explain the special registers of 80386. (5×6 = 30)



PART — C

(Maximum marks : 60)

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

UNIT — I

- III (a) Explain the Architecture of 8086 with a neat diagram. 10  
(b) Explain different instruction types in 8086. 5

OR

- IV (a) Explain the addressing modes of 8086 with examples. 12  
(b) Explain IN A, [DX] 3

UNIT — II

- V (a) With a neat diagram explain interfacing of 8086 with keyboard display controller. 8  
(b) With neat diagram explain the interfacing of 8086 with 8259A. 7

OR

- VI (a) Explain Basic Interrupt Processing. 9  
(b) With neat diagram explain the interfacing of 8086 with 8237. 6

UNIT — III

- VII (a) With a neat diagram explain the architecture of 80286. 9  
(b) Comment on memory management in 80386. 6

OR

- VIII (a) Explain the different operating modes of 80286. 6  
(b) With a neat diagram explain the architecture of 80386. 9

UNIT — IV

- IX (a) With a neat sketch explain the architecture of Pentium Pro Processor. 10  
(b) Write notes on Super scalar architecture. 5

OR

- X (a) Compare Pentium Pro, PentiumI and PentiumII. 5  
(b) Explain (i) hyper threading technology (ii) multicore technology 10
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