TED (10) – 5040

(REVISION — 2010)

Reg. No...

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)

[400]

[P.T.O.

Marks

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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