



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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