



A22-02102

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TED (15) - 6041
(Revision-2015)

Reg.No.....

Signature.....

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ MANAGEMENT/
COMMERCIAL PRACTICE - APRIL - 2022**

ADVANCED MICROPROCESSORS

[Maximum marks: 100]

(Time: 3 Hours)

PART – A

(Maximum Marks: 10)

Marks

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

1. Define pipelining.
2. Define Assembler directive.
3. Name operating modes of Pentium.
4. What are the limitations of single core processor.
5. Define homogeneous multicore processors.

(5 x 2 = 10)

PART – B

(Maximum Marks: 30)

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

1. What are the features of 8086.
2. Describe the registers of 8086.
3. Explain Predefined interrupts
4. Write an ALP to divide a 16 bit by 8 bit number in 8086.
5. Describe paging mechanism in 80386.
6. Explain the features of Pentium.
7. Explain the concept of Multicore processing.

(5 x 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 memory segmentation in 8086.

(7)

(b) Explain how physical address is generated in 8086.

(8)

OR

IV. (a) Explain maximum mode pins of 8086.

(10)



- (b) Explain flag register of 8086. (5)

UNIT-II

- V. (a) Explain Interrupt Vector Table of 8086. (7)

- (b) Explain the response of 8086 to an interrupt. (8)

OR

- VI. (a) Explain any five addressing modes of 8086. (10)

- (b) Write an ALP for 16 bit multiplication in 8086. (5)

UNIT-III

- VII. (a) List the features of 80386. (5)

- (b) Explain the operating modes of 80386. (10)

OR

- VIII. (a) Explain the internal architecture of Pentium Processor. (10)

- (b) List the main features of Pentium Pro. (5)

UNIT-IV

- IX. (a) Explain Hyperthreading Technology. (8)

- (b) Differentiate singlecore and multicore processors. (7)

OR

- X. (a) Explain the features of IA processors. (8)

- (b) Compare core i3, i5 and i7 processors. (7)
