



TED (15) – 6041

Reg. No.....

(REVISION — 2015)

Signature .....

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/  
MANAGEMENT/COMMERCIAL PRACTICE — APRIL, 2019

**ADVANCED MICRO PROCESSOR**

[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. Differentiate HOLD and HLDA.
2. State Auxiliary Carry Flag.
3. Define Assembler directives.
4. Define PVAM of 80386.
5. Define term multi core.

(5×2 = 10)

PART — B

(Maximum marks : 30)

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

1. Specify any six signals related to minimum mode of operation of 8086.
2. Discuss flag register of 8086.
3. Describe interrupt instructions INT, INTO, IRET.
4. Discuss shift instructions of 8086.
5. List any six features of 80386.
6. Discuss flag register of 80386.
7. Compare between single core and multicore processor.

(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) Draw read timing diagram of minimum mode. 8  
(b) Describe memory segmentation of 8086. 7

OR

- IV (a) Discuss register organization of 8086. 8  
(b) Describe physical address generation in 8086. 7

UNIT — II

- V (a) List the types of assembler Directives of 8086. 8  
(b) Discuss three sources of interrupts of 8086. 7

OR

- VI (a) State and describe types of pre-defined interrupt. 8  
(b) Write an ALP to multiple two 16 bit numbers. 7

UNIT — III

- VII (a) Discuss register organisation of 80386. 8  
(b) Discuss paging mechanism of 80386. 7

OR

- VIII (a) Draw architecture of Pentium processor. 10  
(b) Discuss any five features of Pentium processor. 5

UNIT — IV

- IX (a) List the advantages of multi core technology. 8  
(b) Discuss limitations of single core processor. 7

OR

- X (a) Discuss the concept of hyper thread technology. 8  
(b) State major issues in multi core processing. 7
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