TED (15) -6041
(Revision- 2015)

A21-01003

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DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE – APRIL -2021.

ADVANCED MICROPROCESSOR

(Maximum Marks : 75) [Time : 2.15 hours]

PART–A

Marks

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

1. What is meant by saying that 8086 is a 16 bit processor?
2. Which is the default segment when IP is used.
3. What does the instruction STC do?.
4. Name the two descriptor table in 80386.
5. Define core. (3x2=6)

PART - B

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

1. The content of segment registers SS is 5555H and SP contain 1100H. Calculate the physical address.
2. Explain any 6 shift and rotate instructions of 8086.
3. Draw and explain flag register of 8086.
4. Explain interrupt vector table of 8086.
5. List the features of Pentium processor.
6. Compare single core and multicore processor.
7. Briefly explain real mode operation of 80386. [4x6 =24]

PART - C

(Answer **any of the three units** from the following. Each full question carries 15 marks)

UNIT I

III (a) Draw architecture of 8086. (7)

(b) Explain the functions of pins used in maximum mode configuration. (8)

OR

IV (a) Explain the minimum mode configuration in 8086. (7)

(b) Explain the register set of 8086. (8)

UNIT- II

V (a) Explain any 10 data transfer instruction in 8086. (10)

(b) Define the assembler directive; (i) ASSUME (ii) ENDS

(iii) DB (iv) DW (v) ENDP (5)

OR

VI (a) Explain Hardware interrupts of 8086. (7)

(b) Explain the interrupt response of 8086. (8)

UNIT- III

VII (a) What is meant by paging? Explain the address translation mechanism in paged mode with necessary diagram. (10)

(b) List 5 key features of Pentium Pro processor. (5)

OR

VIII (a) Explain the three operating modes of 80386. (10)

(b) Enlist the features of 80386. (5)

UNIT – IV

IX (a) Draw and explain simple block diagram of intel Core 2 Duo processor. (7)

(b) In what way do multi core processor improve performance. (8)

OR

X (a) Explain Hyper threading technology. (5)

(b) Compare core i3, i5 and i7 processors. (10)

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