

Roll No.

Total Pages : 2

8718

BT-7/DX
ADVANCED MICROPROCESSORS
Paper : ECE-423/425(E)

Time : Three Hours]

[Maximum Marks : 100

- Note :** (i) Attempt *five* questions.
(ii) Select at least *one* question from each unit.

UNIT-I

- What is Memory segmentation ? Discuss its advantages. What do you understand by 'Non-overlapping' and 'Overlapping' segments ?
 - Explain the functions of the following pins of 8086 :
 - $\overline{\text{TEST}}$
 - $\text{MN}/\overline{\text{MX}}$
 - $\text{DT}/\overline{\text{R}}$
 - $\overline{\text{DEN}}$.
- What do you understand by Real Addressing Mode and Protected Virtual Address Mode (PVAM) with reference to 80286 ? How the physical address is calculated in PVAM ?

10+10

20

UNIT-II

- Draw the internal block diagram of 80286 and explain the function of each block.
- Explain task switch operation supported by 80286.

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[P.T.O.]

- Discuss the function of following assembler directives :
 - DQ.
 - ASSUME.
 - EQU.
 - LABEL.

10+10

UNIT-III

- Discuss the internal architecture of 80287 with the help of block diagram.
- Explain the status and control words of 80287.
 - Discuss the functions of following 80287 instructions :
 - FLD.
 - FSTP.
 - FCOM.
 - FADD.

10+10

UNIT-IV

- Discuss the architecture of 80387. What are its additional features over 80287 ?
- Write short notes on the following :
 - Salient features of 80487.
 - Segment descriptors.

10+10

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