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ADVANCED MICROPROCESSORS

ECE-423-E

Time: Three Hours]

[Maximum Marks: 100

Note: Attempt Five questions in all, selecting at least one question from each Unit. All questions carry equal marks. Assume missing data, if any.

Unit I

- (a) Discuss the addressing modes of 8086 with two examples for each mode.
 - (b) Explain interfacing of memory with 8086. 10+10
- 2. 1 In the operation of 80386 in protected mode.

Unit II

 Discuss the differences between 8086, 80186, 80286 and 80386. What improvements have been made in 80486 and Pentium? What do you understand by superscalar architecture?

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- 4. (a) Discuss the instruction format of 8086.
 - (b) Draw and explain the internal block diagram of 80386. 10±10

Unit III

- 5. (a) Draw and explain internal block diagram of 80287.
 - (b) Discuss the status and control word of 80287.

10+10

- (a) What are the data types supported by 80287 ? Explain.
 - (b) What are the functions of the following pins of 80287 ?
 - (i) CMD₀ and CMD₁
 - (ii) ERROR
 - (iii) BUSY
 - (iv) PEREQ
 - (v) PEACK
 - (vi) CKM

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(c) Discuss any rwo of the instruction formats of 80287. 8+6+6

Unit IV

- 7. (a) Discuss the register set of 80387.
 - (b) Draw and discuss the architecture of 80387.

10+10

- 8. Write short notes on any two of the following:
 - (a) Differences between 80387 and 80487
 - (b) Registers in 80487
 - (c) Assembler Directives.

10+10