

Roll No. ....

Total Pages : 02

BT-7/M-18

37015

ADVANCED MICROPROCESSOR

ECE-423-E

Option II

Time : Three Hours]

[Maximum Marks : 100

**Note :** There are eight questions in this paper. Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry 20 marks.

**Unit I**

1. (a) List the various hardware and software interrupts. 10
- (b) Explain the concept of segmentation and its advantages. 10
2. Draw the register organization of 80286. Explain the function of each register. 20

**Unit II**

3. (a) Draw the neat and labelled pin diagram of 80486 microprocessor. 10
- (b) Also explain the Pentium memory system. 10

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4. (a) Describe the internal description of Intel 80286 microprocessor. 10
- (b) Write in detail about Assembler Directives. 10

**Unit III**

5. (a) What do you mean by Data Formates ? 8
- (b) Draw the pin diagram of 80287 and also write the function of each pin used in 80287. 12
6. With the neat diagram explain the interfacing of 80287 with 80286 microprocessor and distinguish between 80387 and 80287. 20

**Unit IV**

7. Write a note on 80387 co-processor, its interfacing with 386 processor and also its applications. 20
8. (a) List at least *three* major advantages that the 80487 have over the 80387 co-processor. Why 80487 is known as floating co-processor ? 12
- (b) Explain the register set of 80387. 8

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