Roll No.

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BT-7/D09

ADVANCED MICROPROCESSORS

Paper: ECE-423(E)

Time: Three Hours]

[Maximum Marks: 100

Note: Attempt any five questions. All questions carry equal marks.

- For 8086 microprocessor, discuss the functions of (i) Segment registers, and (ii) Index registers.
 - Explain addressing modes of 8086.

10+10

- Discuss the functions of the following signal/pins in 8086:
 - READY
 - LOCK (ii)
 - TEST (iii)
 - BHE. (iv)
 - Explain the functions of the following 8086 instructions:
 - **JCXZ**
 - ADD (ii)
 - LOOP (iii)
 - MOVS. (iv)

10+10

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3. Explain the use of the following 8086 assembler directives with the help of examples:

- PTR
- ORG
- PROC
- OFFSET.
- Describe the flag register in 8086 and discuss the functions of various flags. 10+10
- Discuss the internal architecture of 80186 with the help of a neat block diagram. Explain the improvement in 80186 in comparison to 8086. 20
- Discuss the block diagram of 80286. Explain its multitasking capability in Protected Virtual Addressing Mode (PVAM).

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- Discuss the internal architecture of 80287 and explain how it is interfaced with 80286. 20
- (a) What do you understand by Virtual memory? Explain 7. clearly with the help of an example.
 - Discuss the interfacing of 8259 interrupt controller with 8086. 10+10
- Write short notes on the following:
 - Interrupt system in 80386.
 - Internal architecture of 80387.
 - Semiconductor memories.

6+7+7

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