Bachelor of Science (B.Sc.I.T.) Semester—III (C.B.S.) Examination
MICROPROCESSOR AND ALP
Paper—I

Time : Three Hours]   [Maximum Marks : 50

N.B. :— (1) **All** questions are compulsory and carry equal marks.

(2) Draw neat and labelled diagram wherever necessary.

EITHER

1. (A) Explain the architecture of 8086 μp in brief.   5

(B) Give the flag register format of 8086 μp and explain.   5

OR

(C) Explain any three addressing modes of 8086.   5

(D) Write a short note on assembler directives.   5

EITHER

2. (A) Explain the minimum and maximum mode of operation of 8086.   5

(B) How is the interfacing of memory done with 8086 ? Explain.   5

OR

(C) What is the need of DMA ? Explain.   5

(D) What are the different modes of operation of 8255 ? Explain in brief.   5

EITHER

3. (A) What is an interrupt ? What is the interrupt structure of 8086 ?   5

(B) Explain in brief the importance of 8259 PIC.   5

OR

(C) What are different serial data transfer schemes ? Explain.   5

(D) Explain in brief the architecture of 8251.   5

EITHER

4. (A) Explain in brief the features of 80286.   5

(B) What are salient features of Pentium ?   5

OR

(C) Explain Real and Protected mode segmentation.   5

(D) Write a note on RISC processor.   5

5. Attempt **all** :

(A) Explain macro with suitable example.   2½

(B) Write a note on keyboard interface with microprocessor.   2½

(C) Explain BIOS interrupts.   2½

(D) Write the features of 80286 μp.   2½