

Section - 1

Question 4. Difference b/w 8085 and 8086 microprocessor. Draw the pin diagram of 8085 processor.

Answer

8085

- (i) 8-bit processor with ;
8-bit ALU and
8-bit data bus

(ii) Memory banking not needed

(iii) 16-bit address bus

(iv) Accesses 64KB memory

(v) Segmentation not performed

(vi) Has 5 status flags

(vii) Piping is not performed

(viii) Has 5 hardware interrupts

(ix) Does not support multiprocessing

(x) ALU cannot perform powerful arithmetic like MUL and DIV

8086

- 16-bit processor with
16-bit ALU and
16-bit data bus

Memory is divided into two banks

20-bit address bus

Accesses 1MB memory

Segmentation is performed

Has 6 status flags and 3 control flags

2 Stage piping is performed

Has 2 hardware interrupts

Supports multiprocessing in max mode

ALU can perform powerful arithmetic like MUL and DIV

