

SEC-1

- ① Difference between 8085 and 8086 microprocessor. Draw the pin diagram of 8085 microprocessor.

Difference :-

8085 μP	8086 μP
i) 8085 is an 8-bit microprocessor.	8086 is a 16-bit microprocessor.
ii) 8085 has 16 address lines.	8086 has 20 address lines.
iii) 8085 has only five flags.	8086 has 9 flags.
iv) It does not support pipelining.	It supports pipelining.
v) 8085 operates on clock cycle with 50% duty cycle.	8086 operates on clock cycle with 33% duty cycle.

Pin diagram of 8085 :-

X_1	1	40	VCC
X_2	2	39	Hold
RESET OUT	3	38	HLDA
S_0D	4	37	CLK(out)
S_1D	5	36	RESET IN
TRAP	6	35	Ready
RST 7.5	7	34	I/O/M
RST 6.5	8	33	S_1
RST 5.5	9	32	\overline{RD}
INTA	10	31	\overline{WR}
\overline{INTA}	11	30	ALE
AD_0	12	29	S_0
AD_1	13	28	A_{15}
AD_2	14	27	A_{14}
AD_3	15	26	A_{13}
AD_4	16	25	A_{12}
AD_5	17	24	A_{11}
AD_6	18	23	A_{10}
AD_7	19	22	A_9
VSS	20	21	A_8