7-9. In Figure 7-8, connect  $Q_0$  to  $\overline{CP_1}$  and  $MR_1$ , and connect  $Q_3$  to  $MR_2$ . If 180-kHz pulses are appled to  $\overline{CP_0}$ , determine the following: (a) the count sequence; (b) MOD number; (c) frequency at  $Q_3$ .

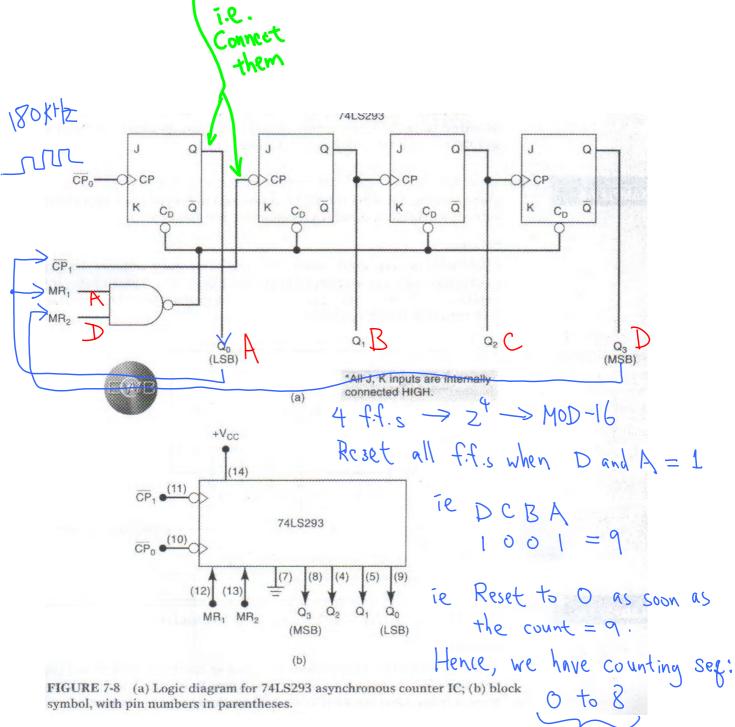


FIGURE 7-8 (a) Logic diagram for 74LS293 asynchronous counter IC; (b) block symbol, with pin numbers in parentheses.

ie MoD-9 counter.