

Section - 6 Q-3

Draw the logic diagram of a 4-bit parallel subtractor

A 4-bit parallel subtractor is used to subtract a number consisting of 4 bits. We get a 4-bit parallel subtractor by cascading a series of full subtractors.

For an n -bit parallel subtractor, we cascade n full subtractors to achieve the desired output. The connections are the same as that of the 4-bit parallel adder.

We use the same 4x4 hex keypad as input data in a full subtractor.

4-bit parallel subtractor

