

SECTION-B

2. Design a full adder and full subtractor.
3. Find a minimal SOP representation for
 $f(A, B, C, D, E) = \sum m(1, 4, 6, 10, 20, 22, 24, 26) + d(0, 11, 16, 27)$ using K-map method. Draw the circuit of minimal expression using only NAND.
4. Explain the working of Master Slave J-K flip flop and how the Race around condition can be removed by using Master Slave J-K flip flop?
5. An 8-bit byte with binary value 0101111 is to be encoded using an even parity Hamming code. What the binary vale after encoding?
6. Draw a block diagram for 4-bit bi-directional Shift Register with parallel load and explain its operation.
7. Design 2 bit count-down counter. (up-down counter)

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