



CSE260: Digital Logic Design
Spring 2025
Quiz - 03
Duration: 25 Minutes

B

Name: Solution

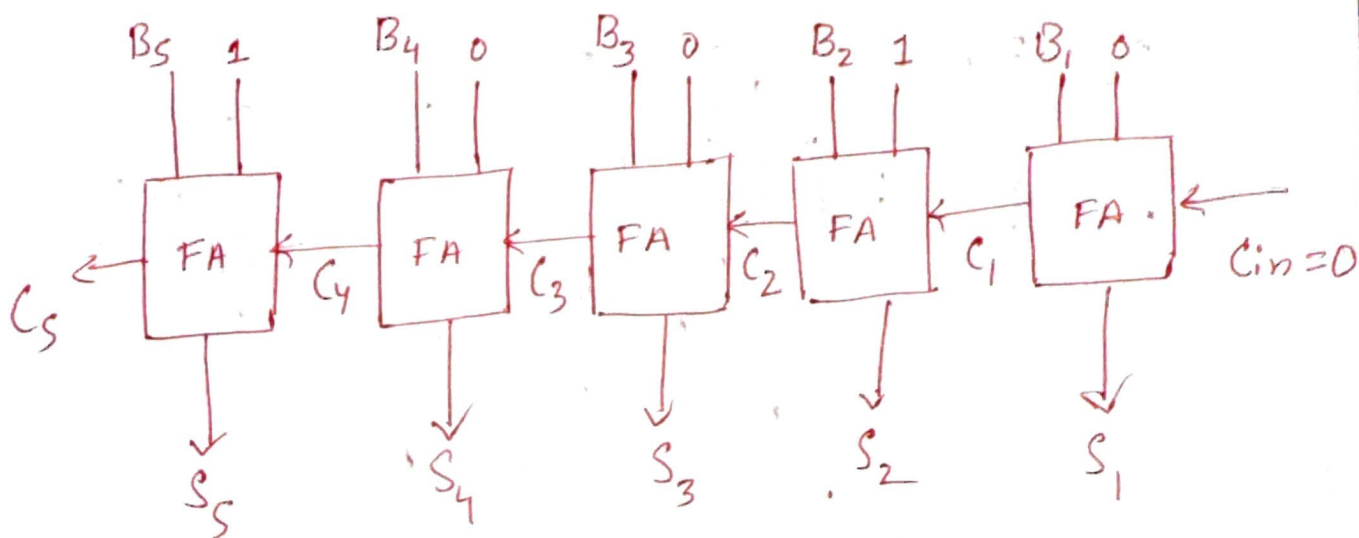
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Section: 13

Instructions: Answer in the space provided.

Question 1 [CO3]: Design $B+18$ using only Full Adders where B is a 5-bit number.
Use external logic gates if required.

$$(18)_{10} = (10010)_2 \quad [7.5]$$



Question 2 [CO3]: Implement the following boolean function using only four 3x8 decoders and one 2x4 decoder. Use external logic gates if required. [7.5]

$$F(A, B, C, D, E) = \sum(5, 9, 18, 27, 30)$$

