

Institute of Computer Technology
B. Tech Computer Science and Engineering
Subject: Computer Organization (2CSE205)

PRACTICAL-EXAM

AIM: - To study and design Combinational Multiplier.

Objective: - (i) **Multiplication of two 4-bit numbers**
(ii) **Analyse Truth Table**

Expected Input: Multiplier number

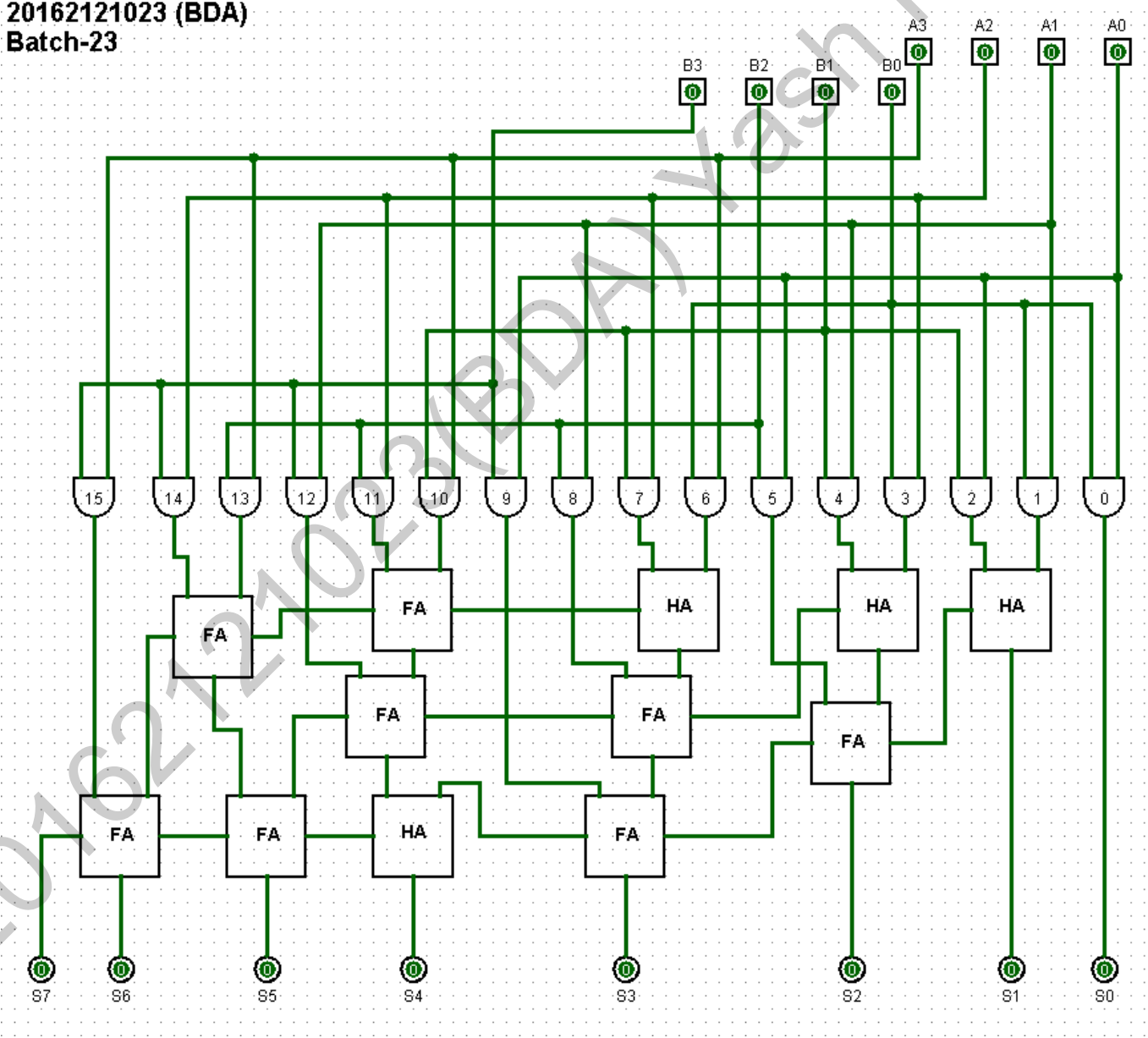
Expected Output: As order given of two 4-bit Number

Write one mathematical example also.

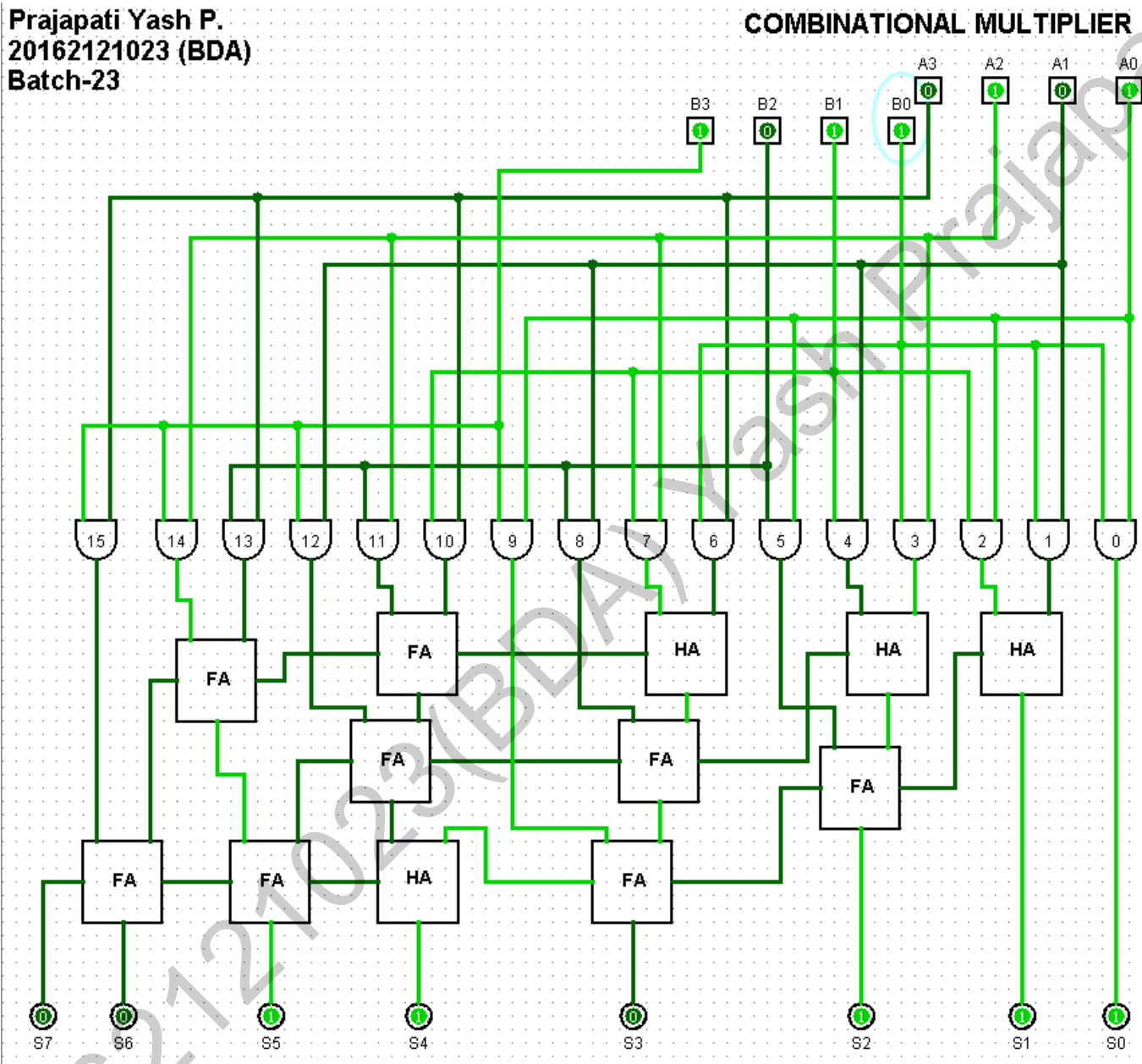
CIRCUIT DIAGRAM:

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COMBINATIONAL MULTIPLIER



For example 2, Take multiplication of two numbers.
number 1 = 5 (0101)
number 2 = 11 (1011)
5*11=55
0101 * 1011 = 00110111



CONCLUSION:

Hence, by studying truth table and circuit diagram and analysing the example we conclude the study and design of Combinational Multiplier.