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GATE:IN-42-2023

EE23BTECH11025 - Anantha Krishnan

I. QUESTION

In the circuit shown, the initial binary content of shift register A is 1101 and that of shift register B is 1010. The shift registers are positive-edge triggered, and the gates have no delay.

When the shift control is high, what will be the binary content of the shift registers A and B after four clock pulses?

- (A) A = 1101, B = 1101
- (B) A = 1110, B = 1001
- (C) A = 0101, B = 1101
- (D) A = 1010, B = 1111

II. SOLUTION

Code for implementation through Verilog onto FPGA. https://github.com/Gandubs/Digital-Design/blob/master/Assignments/in'23-42/codes/fpga.v