

2) Design a 1 bit, 2 to 1 multiplexer (Mux). outputs 4 when 5=0; X when S=1 (a) Generate the truth table (b) Using K-map, determine the logical expression for output. (a) Based on the logical expression, create the schematic diagram for Mux. S I, Io 0 0 0 0 0 1 0 1 0 1 0 0 0 1 1 0 0 0 1 0 0 TILO 4 TiLo TITO y: SI. + SI. 0 s D (6) I

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