Name		
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CSE222 Computer Architecture

Quiz 02

- 1. Design a circuit that has a 3-bit binary input and a single output (Y) as specified in followings:
 - Y = 0 if the inputs is less than $(5)_{10}$
 - Y = 1 if the inputs is greater than or equal to $(5)_{10}$
 - (a) Specify the function in truth table
 - (b) Describe the function in Boolean expression in SOP form, then simplify this Boolean equation, build the circuit using logical gates
 - (c) Draw the Logical Diagrams in other functional circuits:
 - (c1) Build the circuit using 4:1 multiplexer
 - (c2) Build the circuit using 2:1 multiplexer(s)
 - (c3) Build the circuit using 3:8 decoder