

#### **DLD Performance Test**

Time: 45 min

Start Time: 2:25 PM End Time: 03:10PM

Please save your file as: <a href="mailto:ID\_Mid\_Performance\_test">ID\_Mid\_Performance\_test</a>

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A Building has 4 floors which share the same water tank for water supply. In order to start the motor, each floor has a designated switch – Ground floor with switch A, 1<sup>st</sup> floor with switch B, 2<sup>nd</sup> floor with switch C and 3<sup>rd</sup> floor with switch D. The motor starts if someone presses the switch from the ground floor or from both 3<sup>rd</sup> and 2<sup>nd</sup> floor or from 1<sup>st</sup> and 3<sup>rd</sup> floor. For the expression find the truth-table, reduced expression using K-MAP and draw the logic diagram. Also simulate the logic diagram.

#### **SUBMITTED BY GROUP NO: 3**

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