

Gate IN2017, 20

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1. A and B are logical inputs and X is the logical output shown in the figure. The output X is related to A and B by (GATE IN 2017)

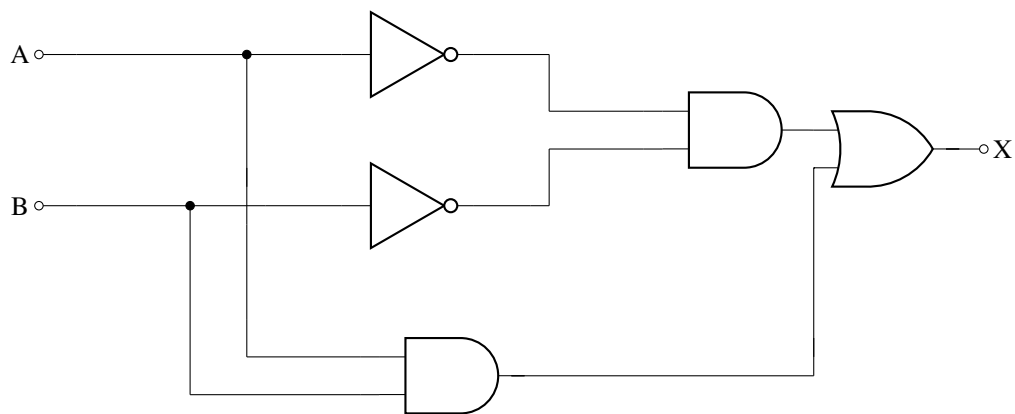


Figure 1: Logic Gate Structure

- A. $X = \bar{A}B + \bar{B}A$
- B. $X = AB + \bar{B}A$
- C. $X = AB + (\bar{B})(\bar{A})$
- D. $X = (\bar{A})(\bar{B}) + \bar{B}A$