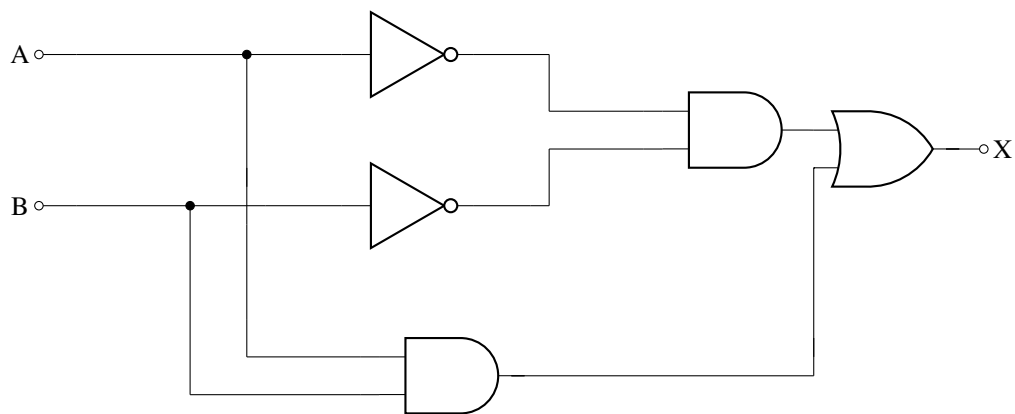# Gate IN2017, 20

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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)

A. $X = \overline{A}B + \overline{B}A$

B. $X = AB + \overline{B}A$

C. $X = AB + (\overline{B})(\overline{A})$

D. $X = (\overline{A})(\overline{B}) + \overline{B}A$