

1. For a reaction $\frac{1}{2}A \rightarrow 2B$, rate of disappearance of 'A' is related to the rate of appearance of 'B' by the expression **[2008]**

(a) $-\frac{d[A]}{dt} = \frac{1}{2} \frac{d[B]}{dt}$ (b) $-\frac{d[A]}{dt} = \frac{1}{4} \frac{d[B]}{dt}$

(c) $-\frac{d[A]}{dt} = \frac{d[B]}{dt}$ (d) $-\frac{d[A]}{dt} = 4 \frac{d[B]}{dt}$