

## Previous year JEE questions 13

Rate of diffusion of a gas is : *(1985 - 1 Mark)*

- (a) directly proportional to its density.
- (b) directly proportional to its molecular weight.
- (c) directly proportional to the square root of its molecular weight.
- (d) inversely proportional to the square root of its molecular weight.

(d)  $\frac{r_1}{r_2} = \sqrt{\frac{d_2}{d_1}} = \sqrt{\frac{M_2}{M_1}}$