72. Solution: E

We are given that R is uniform on the interval $(0.04, 0.08)$ and $V = 10{,}000e^R$

Therefore, the distribution function of V is given by

$$F(v) = \Pr[V \le v] = \Pr\left[10{,}000e^R \le v\right] = \Pr\left[R \le \ln(v) - \ln(10{,}000)\right]$$

$$= \frac{1}{0.04}\int_{0.04}^{\ln(v)-\ln(10{,}000)} dr = \frac{1}{0.04}\, r\Big|_{0.04}^{\ln(v)-\ln(10{,}000)} = 25\ln(v) - 25\ln(10{,}000) - 1$$

$$= 25\left[\ln\left(\frac{v}{10{,}000}\right) - 0.04\right]$$