

92. For a fully continuous whole life insurance of 1:

(i) $\mu_x = 0.04, x > 0$

(ii) $\delta = 0.08$

(iii) L is the loss-at-issue random variable based on the benefit premium.

Calculate $\text{Var}(L)$.

(A) $\frac{1}{10}$

(B) $\frac{1}{5}$

(C) $\frac{1}{4}$

(D) $\frac{1}{3}$

(E) $\frac{1}{2}$