

37. For a fully continuous whole life insurance of 1 on (x) , you are given:

(i) $\delta = 0.04$

(ii) $\bar{a}_x = 12$

(iii) $Var(v^T) = 0.10$

(iv) Expenses are

(a) 0.02 initial expense

(b) 0.003 per year, payable continuously

(v) The gross premium is the benefit premium plus 0.0066.

(vi) ${}_0L$ is the loss variable at issue.

Calculate $Var({}_0L)$.

(A) 0.208

(B) 0.217

(C) 0.308

(D) 0.434

(E) 0.472