

117. For a double-decrement model:

(i) ${}_t p'_{40}^{(1)} = 1 - \frac{t}{60}, \quad 0 \leq t \leq 60$

(ii) ${}_t p'_{40}^{(2)} = 1 - \frac{t}{40}, \quad 0 \leq t \leq 40$

Calculate $\mu_{40+20}^{(\tau)}$.

(A) 0.025

(B) 0.038

(C) 0.050

(D) 0.063

(E) 0.07