

36. For a double decrement table, you are given:

(i) $q_x^{(1)} = 0.2$

(ii) $q_x^{(2)} = 0.3$

(iii) Each decrement is uniformly distributed over each year of age in the double decrement table.

Calculate ${}_{0.3}q_{x+0.1}^{(1)}$.

(A) 0.020

(B) 0.031

(C) 0.042

(D) 0.053

(E) 0.064