

107. Z is the present value random variable for a 15-year pure endowment of 1 on (x) :

(i) The force of mortality is constant over the 15-year period.

(ii) $v = 0.9$

(iii) $\text{Var}(Z) = 0.065 E[Z]$

Calculate q_x .

(A) 0.020

(B) 0.025

(C) 0.030

(D) 0.035

(E) 0.040