

249. For (x) and (y) with independent future lifetimes, you are given:

- (i) (x) is subject to a uniform distribution of deaths over each year of age.
- (ii) (y) is subject to a constant force of mortality of 0.25.
- (iii) $q_{xy}^1 = 0.125$

Calculate q_x .

- (A) 0.130
- (B) 0.141
- (C) 0.167
- (D) 0.214
- (E) 0.250