

**265.** You are given:

- (i)  $(x)$  and  $(y)$  are independent lives.
- (ii)  $\mu_{x+t} = 5t, t \geq 0$  is the force of mortality for  $(x)$ .
- (iii)  $\mu_{y+t} = 1t, t \geq 0$  is the force of mortality for  $(y)$ .

Calculate  $q_{x,y}^1$ .

- (A) 0.16
- (B) 0.24
- (C) 0.39
- (D) 0.79
- (E) 0.83