83. For a double decrement model:

(i) In the single decrement table associated with cause (1), $q_{40}'^{(1)} = 0.100$ and decrements are uniformly distributed over the year.

(ii) In the single decrement table associated with cause (2), $q_{40}'^{(2)} = 0.125$ and all decrements occur at time 0.7.

Calculate $q_{40}^{(2)}$.

(A) 0.114

(B) 0.115

(C) 0.116

(D) 0.117

(E) 0.118