

50. For a fully discrete whole life insurance of 1000 on (20), you are given:

(i) $1000 P_{20} = 10$

(ii) The following benefit reserves for this insurance

(a) ${}_{20}V = 490$

(b) ${}_{21}V = 545$

(c) ${}_{22}V = 605$

(iii) $q_{40} = 0.022$

Calculate q_{41} .

(A) 0.024

(B) 0.025

(C) 0.026

(D) 0.027

(E) 0.028