

49. For a special fully continuous whole life insurance of 1 on the last-survivor of (x) and (y), you are given:

(i) T_x and T_y are independent.

(ii) $\mu_{x+t} = \mu_{y+t} = 0.07, \quad t > 0$

(iii) $\delta = 0.05$

(iv) Premiums are payable until the first death.

Calculate the level annual benefit premium for this insurance.

(A) 0.04

(B) 0.07

(C) 0.08

(D) 0.10

(E) 0.14