

- 233.** You are pricing a special 3-year temporary life annuity-due on two lives each age x , with independent future lifetimes, each following the same mortality table. The annuity pays 10,000 if both persons are alive and 2000 if exactly one person is alive.

You are given:

- (i) $q_{xx} = 0.04$
- (ii) $q_{x+1:x+1} = 0.01$
- (iii) $i = 0.05$

Calculate the expected present value of this annuity.

- (A) 27,800
- (B) 27,900
- (C) 28,000
- (D) 28,100
- (E) 28,200