

- 173.** You are pricing a special 3-year annuity-due on two independent lives, both age 80. The annuity pays 30,000 if both persons are alive and 20,000 if only one person is alive.

You are given:

(i)

k	${}_kP_{80}$
1	0.91
2	0.82
3	0.72

(ii) $i = 0.05$

Calculate the actuarial present value of this annuity.

- (A) 78,300
- (B) 80,400
- (C) 82,500
- (D) 84,700
- (E) 86,800