

**192.** For a group of lives age  $x$ , you are given:

- (i) Each member of the group has a constant force of mortality that is drawn from the uniform distribution on  $[0.01, 0.02]$ .
- (ii)  $\delta = 0.01$

For a member selected at random from this group, calculate the actuarial present value of a continuous lifetime annuity of 1 per year.

- (A) 40.0
- (B) 40.5
- (C) 41.1
- (D) 41.7
- (E) 42.3