

229. You are given:

- (i) Y is the present value random variable for a continuous whole life annuity of 1 per year on (40) .
- (ii) Mortality follows $S_0(t) = 1 - \frac{t}{120}$, $0 \leq t \leq 120$.
- (iii) $\delta = 0.05$

Calculate the 75th percentile of the distribution of Y .

- (A) 12.6
- (B) 14.0
- (C) 15.3
- (D) 17.7
- (E) 19.0