

**55.** For a 20-year deferred whole life annuity-due of 1 per year on  $(45)$ , you are given:

(i)  $l_x = 10(105 - x), 0 \leq x \leq 105$

(ii)  $i = 0$

Calculate the probability that the sum of the annuity payments actually made will exceed the actuarial present value at issue of the annuity.

(A) 0.425

(B) 0.450

(C) 0.475

(D) 0.500

(E) 0.525