

**72.** Each of 100 independent lives purchase a single premium 5-year deferred whole life insurance of 10 payable at the moment of death. You are given:

(i)  $\mu = 0.04$

(ii)  $\delta = 0.06$

(iii)  $F$  is the aggregate amount the insurer receives from the 100 lives.

Using the normal approximation, calculate  $F$  such that the probability the insurer has sufficient funds to pay all claims is 0.95.

(A) 280

(B) 390

(C) 500

(D) 610

(E) 720