

30. For a fully discrete 10-payment whole life insurance of 100,000 on (x) , you are given:

(i) $i = 0.05$

(ii) $q_{x+9} = 0.011$

(iii) $q_{x+10} = 0.012$

(iv) $q_{x+11} = 0.014$

(v) The level annual benefit premium is 2078.

(vi) The benefit reserve at the end of year 9 is 32,535.

Calculate $100,000A_{x+11}$.

(A) 34,100

(B) 34,300

(C) 35,500

(D) 36,500

(E) 36,700