

127. For a special fully discrete 35-payment whole life insurance on (30):

- (i) The death benefit is 1 for the first 20 years and is 5 thereafter.
- (ii) The initial benefit premium paid during the each of the first 20 years is one fifth of the benefit premium paid during each of the 15 subsequent years.
- (iii) Mortality follows the Illustrative Life Table.
- (iv) $i = 0.06$
- (v) $A_{30:\overline{20}|} = 0.32307$
- (vi) $\ddot{a}_{30:\overline{35}|} = 14.835$

Calculate the initial annual benefit premium.

- (A) 0.010
- (B) 0.015
- (C) 0.020
- (D) 0.025
- (E) 0.030