

109. For a special 3-year term insurance on (x) , you are given:

- (i) Z is the present-value random variable for the death benefits.
- (ii) $q_{x+k} = 0.02(k + 1) \quad k = 0, 1, 2$
- (iii) The following death benefits, payable at the end of the year of death:

k	b_{k+1}
0	300,000
1	350,000
2	400,000

- (iv) $i = 0.06$

Calculate $E(Z)$.

- (A) 36,800
- (B) 39,100
- (C) 41,400
- (D) 43,700
- (E) 46,000