

158. For an increasing 10-year term insurance, you are given:

- (i) The death for death during year $k + 1$ is $b_{k+1} = 100,000(k + 1)$, $k = 0, 1, \dots, 9$
- (ii) Benefits are payable at the end of the year of death.
- (iii) Mortality follows the Illustrative Life Table.
- (iv) $i = 0.06$
- (v) The single benefit premium for this insurance on (41) is 16,736.

Calculate the single benefit premium for this insurance on (40).

- (A) 12,700
- (B) 13,600
- (C) 14,500
- (D) 15,500
- (E) 16,300