

286. You are given:

- (i) The force of mortality follows Gompertz's law with $B = 0.000005$ and $c = 1.2$.
- (ii) The annual effective rate of interest is 3%.

Calculate $A_{50:\overline{2}|}^1$.

- (A) 0.1024
- (B) 0.1018
- (C) 0.1009
- (D) 0.1000
- (E) 0.0994