

94. You are given:

- (i) The future lifetimes of (50) and (50) are independent.
- (ii) Mortality follows the Illustrative Life Table.
- (iii) Deaths are uniformly distributed over each year of age.

Calculate the force of failure at duration 10.5 for the last survivor status of (50) and (50) .

- (A) 0.001
- (B) 0.002
- (C) 0.003
- (D) 0.004
- (E) 0.005