

### Question #145

Answer: D

$$e_{25} = p_{25}(1 + e_{26})$$

$$e_{26}^N = e_{26}^M \text{ due to having the same } \mu$$

$$p_{25}^N = \exp\left[-\int_0^1 \mu_{25+t}^M + 0.1(1-t)dt\right] = p_{25}^M e^{-0.05}$$

$$e_{25}^N = p_{25}^N(1 + e_{26}) = e^{-0.05} p_{25}^M(1 + e_{26}) = 0.951 e_{25}^M = 9.51$$