

**Question #224****Answer: D**

$$l_{60}^{(\tau)} = 1000$$

$$l_{61}^{(\tau)} = 1000(0.99)(0.97)(0.90) = 864.27$$

$$d_{60}^{(\tau)} = 1000 - 864.27 = 135.73$$

$$d_{60}^{(3)} = 135.73 \times \frac{-\ln(0.9)}{-\ln[(0.99)(0.97)(0.9)]} = \frac{0.1054}{0.1459} = 98.05$$

$$l_{62}^{(\tau)} = 864.27(0.987)(0.95)(0.80) = 648.31$$

$$d_{61}^{(\tau)} = 864.27 - 648.31 = 215.96$$

$$d_{61}^{(3)} = 215.96 \times \frac{-\ln(0.80)}{-\ln[(0.987)(0.95)(0.80)]} = \frac{0.2231}{0.2875} = 167.58$$

$$\text{So } d_{60}^{(3)} + d_{61}^{(3)} = 98.05 + 167.58 = 265.63$$