

Question #73

Answer: D

Prob{only 1 survives} = 1-Prob{both survive}-Prob{neither survives}

$$\begin{aligned} &= 1 - {}_3p_{50} \times {}_3p_{[50]} - (1 - {}_3p_{50})(1 - {}_3p_{[50]}) \\ &= 1 - \underbrace{(0.9713)(0.9698)(0.9682)}_{=0.912012} \underbrace{(0.9849)(0.9819)(0.9682)}_{0.936320} - (1 - 0.912012)(1 - 0.93632) \\ &= 0.140461 \end{aligned}$$