

Question #117**Key: A**

$$UDD \Rightarrow l_{21} = (0.8)(53,488) + (0.2)(17,384) = 46,267.2$$

$$\begin{aligned} Mrl(21) &= \dot{e}_{21} = \int_0^{\infty} {}_t p_{21} \int_0^{\infty} \frac{S(21+t)}{S(21)} dt \\ &= \sum \text{areas} \\ &= 2.751 + 1.228 + 0.361 + 0.072 \\ &= 4.412 \end{aligned}$$

