Name:
$X$ You are given:

$$
\mu_{x}= \begin{cases}0.06 & 30 \leq x \leq 40 \\ 0.03 & 40 \leq x \leq 60\end{cases}
$$

Ans:-

$$
5116 q_{30}={ }_{5} P_{30} q_{16} q_{35}
$$

Calculate 516930 .

$$
\begin{aligned}
& 5 P_{30}=e^{-} \int_{30}^{35} 0.06+s=e^{-0.06(s)} \\
&{ }_{16} P_{35}=\int_{35} P_{35}{ }_{11} P_{40} \\
&=e^{-} \int_{35}^{40} 0.06 d s e^{-} \int_{40}^{51} 0.03 d s \\
&=e^{-0.06(s)} e_{10}^{-0.03(11)} \\
&=P_{30}\left(1-P_{35}\right)=0.35
\end{aligned}
$$

A 0.38
B 0.35
C 0.41
D 0.43

$$
\text { E } 0.44
$$

$x$ Which of the following can serve as survival functions for $x \geq 0$ ?
$x \mid S_{0}(x)=\exp \left(x-0.7\left(2^{x}-1\right)\right)$
$x$ II. $S_{0}(x)=4 /(x+10)$
$X$ III. $S_{0}(x)=\exp (-(3+x)) \quad$ satisfy:-
(1) $s_{x}(0)=1$

A I and II only
BI and III only
C II and III only
(2) $S_{x}(\infty)=0$

DI, II and III *inc fund * $S_{2}(0) \neq 1 \quad S_{x}(0) \neq$ ?
E The correct answer is not among the other choices.

