4.1) a)
$$D_0 = \frac{1n}{N_{box}(\xi)} = \frac{1n}{1n} \frac{4^n}{(\frac{1}{3})^n} = \frac{n \cdot 4^n}{(n \cdot 3^n)} = \frac{n \cdot 1n \cdot 4}{7 \cdot in \cdot 3} = \frac{1n \cdot 4^n}{1n \cdot 3}$$

b) $N_{EOK}(\xi) = N_A(\xi) + N_B(\xi)$
 $N_A(\xi) = N_{EOX}(\frac{\xi}{\lambda a})$, $\lambda_A = \frac{1}{4}$
 $N_B(\xi) = N_{EOX}(\frac{\xi}{\lambda a}) + A(\frac{\xi}{\lambda b}) \Rightarrow (\frac{1}{3^n})^{-D_0} = 4(\frac{1}{3^n})^{-D_0} + (\frac{1}{3^n})^{-D_0} = \frac{1}{3^n}$
 $= \frac{1n \cdot 4^n}{1n \cdot 3}$, $A_A = \frac{1}{4}$
 $N_B(\xi) = N_{EOX}(\frac{\xi}{\lambda a}) + A(\frac{\xi}{\lambda b}) \Rightarrow (\frac{1}{3^n})^{-D_0} = 4(\frac{1}{3^n})^{-D_0} + (\frac{1}{3^n})^{-D_0} = \frac{1}{3^n}$
 $= \frac{1n \cdot 4^n}{1n \cdot 3}$, $A_A = \frac{1}{4}$
 $N_B(\xi) = N_{EOX}(\frac{\xi}{\lambda a}) + A(\frac{\xi}{\lambda b}) \Rightarrow (\frac{1}{3^n})^{-D_0} = 4(\frac{1}{3^n})^{-D_0} + (\frac{1}{3^n})^{-D_0} = \frac{1}{3^n}$
 $= \frac{1n \cdot 4^n}{1n \cdot 3}$, $A_A = \frac{1}{4}$
 $= \frac{1}{4}$
 $= \frac{1n \cdot 4^n}{1n \cdot 3}$, $A_A = \frac{1}{4}$
 $= \frac{1}{3^n}$
 $= \frac{1n \cdot 4^n}{1n \cdot 3^n}$
 $= \frac{1n \cdot 4^n}{1n$

Ans: D. = IN (1+ V/2)