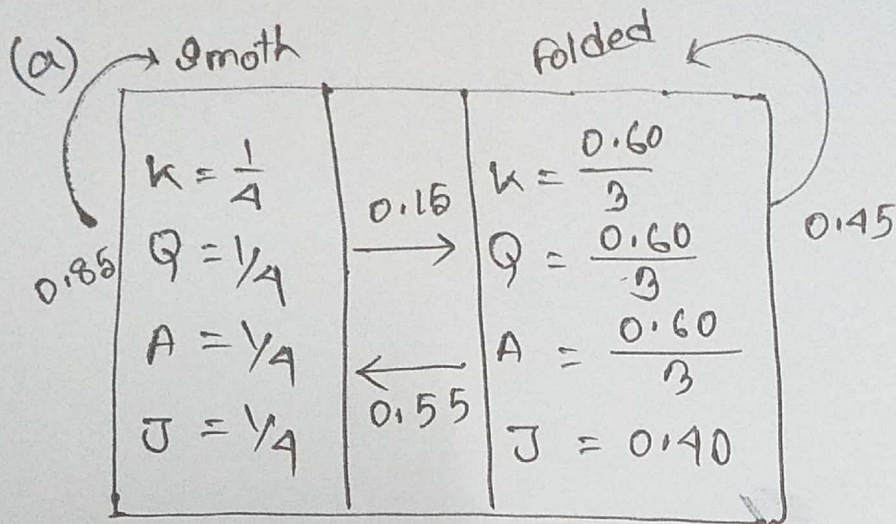


Summery 10 :-



For folded,

$$(i - 0.40) = 0.60$$

$$\begin{aligned}
 \text{Prob}(SFS) &= 0.5 \times \frac{1}{4} \times 0.85 \times 0.40 \times 0.15 \times \frac{1}{4} \times 0.55 \\
 &= 0.00088
 \end{aligned}$$

$$\begin{aligned}
 \text{Prob}(SSF) &= 0.5 \times \frac{1}{4} \times 0.85 \times \frac{1}{4} \times 0.85 \times 0.20 \times 0.15 \\
 &= 0.00068
 \end{aligned}$$

$$\begin{aligned}
 \text{Prob}(FSF) &= 0.5 \times 0.20 \times 0.45 \times \frac{1}{4} \times 0.15 \times 0.20 \times 0.15 \\
 &= 0.00005
 \end{aligned}$$

(b)

	k	J	Q
S	$0.5 \times \frac{1}{4}$ $= 0.125$	$\frac{1}{4} \times \text{max}$ $= 0.0247$	$\frac{1}{4} \text{max} / 0.0247 \times 0.85$ $= 0.0051$
F	$0.5 \times 0.2$ $= 0.1$	$0.4 \times \text{max}$ $0.018$	$\frac{1}{4} \times \text{max}$ $= 0.00162$

Most likely combinal = SSS