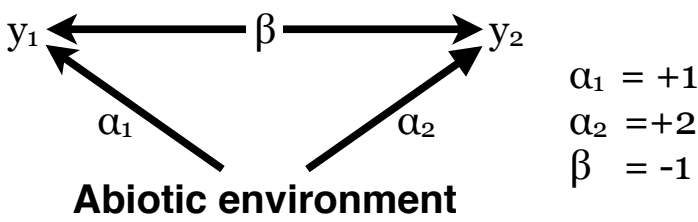


**A.**



**B.**

$$\begin{aligned} & \alpha_1 y_1 \quad \alpha_2 y_2 \quad \beta y_1 y_2 \\ P[\emptyset \emptyset] &= e^{(+0 \quad +0 \quad +0)} / Z = e^{(0)} / Z \\ P[y_1 \emptyset] &= e^{(+1 \quad +0 \quad +0)} / Z = e^{(1)} / Z \\ P[\emptyset y_1] &= e^{(+0 \quad +2 \quad +0)} / Z = e^{(2)} / Z \\ P[y_1 y_2] &= e^{(+1 \quad +2 \quad -1)} / Z = e^{(2)} / Z \\ & (e^0 + e^1 + e^2 + e^2) / Z = 1 \end{aligned}$$

**C.**

		Species 1	
		Absent	Present
Species 2	Absent	5%	15%
	Present	40%	40%

**D.**

		Species 1	
		Absent	Present
Species 2	Absent	3%	9%
	Present	24%	64%