

Question #49

Answer: C

$$\mu_{xy} = \mu_x + \mu_y = 0.14$$

$$\bar{A}_x = \bar{A}_y = \frac{\mu}{\mu + \delta} = \frac{0.07}{0.07 + 0.05} = 0.5833$$

$$\bar{A}_{xy} = \frac{\mu_{xy}}{\mu_{xy} + \delta} = \frac{0.14}{0.14 + 0.05} = \frac{0.14}{0.19} = 0.7368 \text{ and } \bar{a}_{xy} = \frac{1}{\mu_{xy} + \delta} = \frac{1}{0.14 + 0.05} = 5.2632$$

$$P = \frac{\bar{A}_{xy}}{\bar{a}_{xy}} = \frac{\bar{A}_x + \bar{A}_y - \bar{A}_{xy}}{\bar{a}_{xy}} = \frac{2(0.5833) - 0.7368}{5.2632} = 0.0817$$