

**21. Correct. The answer is true**

$$\begin{aligned}\text{Expected Power} &= E(EI) * 24 * 365 = E(30x) * 24 * 365 \\ &= 30 E[x] * 24 * 365 \\ &= 30 * [30 (0.05) + 10 (0.45) + 0 (0.50)] * 24 * 365 \\ &= 1,576,800 \text{ kwh each year.}\end{aligned}$$