سرُال ۱) Xو ۲ مسفل هسدے $P(X \cap Y) = f_{xy}(n,y), P(n) = f_{x}(x), P(y) = f_{y}(y)$ $f_{x}(n) = \int_{0}^{\infty} f_{ny}(n,y) dy = \int_{0}^{\infty} y e^{-tx} e^{-ty} dy = Ye^{-tx}$ fy (y) = for fny (noy) dn = for ye me toda = re-ty => fn(n). fy(y)= ye-1x-1y = fny (myy) mer end) pain (= P(x) P(r) =) min (Finx)

$$E(Y|X)Y) = E(Y)$$

$$Y = \text{omp}(Y) = \text{if } E(Y) = \frac{1}{\lambda} = \frac{1}{\mu}$$

$$F(X)Y) = \int_{y=0}^{\infty} \int_{x=y}^{\infty} f(x)y(x)dxdy$$

$$= \int_{0}^{\infty} \int_{y}^{\infty} Ye^{-Y}e^{-Y}ydxdy = \int_{0}^{\infty} Ye^{-Y}ydxdy = \int_{0}^{\infty} Ye^{-Y}ydxdy$$

$$= \frac{\mu}{6}$$