$$21-S1-Q3$$

$$Q:(a) P(a,b)=? P(o,b)=? P(a,\infty)=\infty$$

$$Solution (a) P(a,b) = p(a \le x \le b)$$

$$= \frac{b}{\ge \frac{e^{-\lambda t}(\lambda t)^k}{k!}}$$

$$p(o,b) = P(o \le x \le b)$$

$$= \frac{b}{k=0} \frac{e^{-\lambda t}(\lambda t)^k}{k!}$$

$$\frac{P(\alpha, \infty) = P(x \ge a)}{= 1 - P(x \le a)}$$

$$= 1 - \sum_{k=0}^{a-1} \frac{e^{-\lambda t} (\lambda t)^k}{k!}$$

Q(b)(i) TPM=?

State space
$$\S Wo W, W_2 W_3$$
 [et D_{k+1} 为下个月发的奖品数. , X_{CH} 为下个月省曾色量 $P_{00} = P\S D_{K+1} = 3$] 如上脏发光,下月底也发光