HOME WORK 20. JUAN PABLO ROYO SAZES.

PROBLEM 20.1

$$\lambda = \frac{1}{2}$$
 $T = 1$

$$E[B] = 2 \frac{1 - 1/2}{1/2}$$

$$E[B] = 2$$

O: NO Att IN CONVER

1: some of in server

$$\frac{1/2}{0}$$
 $\frac{1/2}{0}$ $\frac{1}{2}$ $\frac{1}{2}$

$$\omega = \lambda \pm [S^2] \qquad P = \frac{1}{2}$$

$$E[B] = 2 \frac{1/2}{1/2} = 2$$

$$\lambda W \leq 1$$
 $\frac{1}{2} w \leq 1$
 $\frac{1}{2} w \leq 2$

$$\lambda \in [S^2] \leq 24 (1-8)$$

$$E[S^2] \leq \underbrace{4(n-R)}_{\lambda} \Rightarrow \underbrace{E[S^2]}_{\lambda} \leq \underbrace{8(n-R)}_{-1}$$