Predictive Post por Jernoulli Distribution Orbeta (a, B) U; ~ Bernoulli (0) $|P|D| = |Bela(\alpha', \beta') = \frac{1}{3(\alpha', \beta)} |P|^{\alpha'-1} \cdot (1-e)^{\beta'-1}$ $\alpha' = \alpha + \sum_{i} \omega^{i}$ 15 = Bt N - 5, W [1] -T. burorow's Water TNBen(0) We wat p(TID) joint: $P(\theta, D, T) = p(\theta) \cdot P(D|\theta) \cdot p(T|\theta)$ P(0, T/D) P(D) = P(0). (P(D) P(T10) /: P(D) $p(\theta, \tau, \theta) = \frac{p(\theta) \cdot p(\theta)}{p(\theta)} \cdot p(\tau, \theta)$ Days Rule " P (B 1)) P(0,710) = P(010) . P(T10) ¿maghable over O (Ocathuous, Oclon) $P(T|D) = \int P(\theta,T|D) d\theta$ $= \int P(\theta | D) \cdot P(T | \theta) d\theta = E_{\text{outlind}} \left[P(T | \theta) \right]$ $= \int \text{Refa}(\alpha', \beta') \cdot \text{Sm}(\theta) d\theta$ $= \int \text{Refa}(\alpha', \beta') \cdot \text{Sm}(\theta) d\theta$ $= \int \text{Refa}(\alpha', \beta') \cdot \text{Sm}(\theta) d\theta$ = \int Beta (\alpha', \beta'). Brn (\textit{\theta}) d\theta $=\int_{\overline{B}}^{A} \frac{1}{\overline{B}(a',\beta')} \cdot \Theta^{x'-1} (1-0)^{x'-1} \cdot \Theta^{x'-1} \cdot \Theta^{x'-1} \cdot (1-0)^{x'-1} \cdot \Theta^{x'-1} \cdot \Theta^{x'-1}$

(holyand is difficult) $= \frac{(\alpha')^{T} \cdot (\beta')^{1-T}}{\alpha' + \beta'}$