= [ of o Actiff (xi, Ac, Oc) · it ((xi, Ac)) to (1) to (10) docage  $= \int_{0}^{\infty} \int_{0}^{\infty} \frac{19}{\lambda_{c}} (\lambda_{c} + \theta_{c}) \frac{19}{(\lambda_{c} + \theta_{c})} \frac{19}{(\lambda_{c} +$  $E[\Lambda_{c}|X] = \int_{\lambda} \int_{0} \lambda \cdot e^{\frac{1}{2}(\lambda_{c} + \theta_{c})} \cdot \frac{1}{\Pi(X_{12})} \cdot (\lambda + \theta)^{\frac{19}{2}X_{12}} \cdot e^{\frac{19}{2}(\lambda_{c})} \cdot \frac{1}{\Pi(X_{22})} \cdot (\lambda)^{\frac{19}{2}X_{22}} \cdot \frac{1}{(H\lambda_{c})(H\theta_{c})} dxd\theta_{c}$  $\int_{\lambda} \int_{\theta} e^{\frac{i\theta}{2}(\lambda_{c}+\theta_{c})} \cdot \frac{1}{\pi(\lambda_{i})} \cdot (\lambda + \theta)^{\frac{i\theta}{2}} \chi_{i} e^{\frac{i\theta}{2}(\lambda_{c})} \cdot \frac{1}{\pi(\lambda_{i})} \cdot (\lambda)^{\frac{2}{2}} \chi_{i} \frac{1}{(1+\lambda_{i})(4\theta_{i})} d\theta$  $=\int_{\lambda}\int_{\theta}\lambda e^{\frac{i\eta}{2}(\lambda_{c}+\theta_{c})}(\lambda+\theta)^{\frac{i\eta}{2}}\chi_{12} e^{\frac{i\eta}{2}(\lambda_{c})} e^{\frac{i\eta}{2}\chi_{22}} \cdot \frac{1}{(1+\lambda)(1+\theta)}, d\lambda d\theta$  $\mathcal{L}_{\theta} e^{\frac{1}{2}(\lambda_{c}+\theta_{c})} (\lambda+\theta)^{\frac{1}{2}\chi_{12}} e^{\frac{1}{2}(\lambda_{c})} (\lambda)^{\frac{1}{2}\chi_{22}} \cdot \frac{1}{(i+\lambda_{c})(i+\theta_{c})} d\lambda d\theta$ = [x] A (e (19 (Ac+0c)) (A+0) (A+0) (19 Ac (A) (19 X2i)) . (HX) (HO) dx do Sh Se (e 19 (λc+θc) (λ+θ) (λ+θ) (e 19λc (λ) (λ) (HA)(1+θ) dh de = Constant Saso h(1,0) g(x,0) dado Constant Sx So hz ( A, 0) g ( A, 0 ) dx dQ. where  $h_1(\lambda, \theta) = \lambda \cdot \frac{1}{(1+\lambda)(1+\theta)}$  and  $\lambda = 0$  Gamma  $(\frac{19}{2}X_{22}+1, 19)$   $h_2(\lambda, \theta) = \frac{1}{(1+\lambda)(1+\theta)}$  and  $\lambda + 0 \sim Gamma\left(\frac{19}{2}X_{12}+1, 19\right)$  And Ba Gamma ( = Xi; +1, 19) - Gamma ( = Xs; +1, 19)

$$E[\Lambda c] \times J = \frac{\sum_{k=1}^{n} \lambda_{k} \frac{1}{(1+\lambda_{k}(1+\varrho_{k}))}}{\sum_{k=1}^{n} \frac{1}{(1+\lambda_{k}(1+\varrho_{k}))}}$$
 and  $n \in S$  the

and n is the generate times for a and O.

$$E[\Theta \mid X] = \frac{\sum_{k=1}^{k=1} \theta_k \cdot \frac{(Hy^k)(1+\theta^k)}{(Hy^k)(1+\theta^k)}}{\sum_{k=1}^{k=1} \theta_k \cdot \frac{(Hy^k)(1+\theta^k)}{(Hy^k)(1+\theta^k)}}$$