6.
$$\hat{\mu} = \frac{1}{20} \sum_{i=1}^{20} h_i x_i = 3.089$$

$$6^{2} = \frac{1}{20} \frac{20}{21} (\ln x_{1} - 3.084)^{2} = 0.508$$

$$: \hat{E}(X) = e^{2\alpha + \frac{G^2}{2}} = 28.305$$

7. (1)
$$EX = \frac{30}{2}$$
 $1DX = \frac{0}{12}$

$$: E \overline{X} = \frac{30}{2} \qquad D \overline{X} = \frac{0^2}{127}$$

8. (1) L(0)= e (200- 2) X1 I (X11) 703 当品有的生产有数大值 E 0, = 1+0 +0 : 0, 世下, 为 065天何给计 E & = - + = 0+02 Dô=一一一 高为相合估计 (2) EX=0+1 : 负= X-1 ,从为日的无循线H, Pô2=1-70 : 一定为日后与于国际行行 2. スナ/生産 から、 左 Cv (Ti, 中)= o ElaTithTul=a0, +b02 Cov Catithte, \$1= 0

: GT, +bT2 A OB,+b265 UMVUE

6. (1)
$$L(\theta) = \frac{1}{|\mathcal{I}|} \bullet \chi_{i}^{ot} \bullet \mathcal{I}_{i}$$
 $\frac{\partial h}{\partial \theta} L(\theta) = \frac{\partial g}{\partial \theta} - \frac{\partial g}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{i}$

(2) $I(\theta) = -\frac{1}{|\mathcal{I}|} \left(\frac{\partial^{2}}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{i}\right) = 0$
 $\frac{\partial^{2}}{\partial \theta} \left(\frac{\partial^{2}}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{i}\right) = -\frac{1}{|\mathcal{I}|} \left(-\frac{1}{|\mathcal{I}|}\right) = \frac{1}{|\mathcal{I}|} \left(\frac{\partial^{2}}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{i}\right) = 0$
 $\frac{\partial^{2}}{\partial \theta} \left(\frac{\partial^{2}}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{i}\right) = -\frac{1}{|\mathcal{I}|} \left(\frac{\partial^{2}}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{i}\right) = 0$
 $\frac{\partial^{2}}{\partial \theta} \left(\frac{\partial h}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{i}\right) = 0$
 $\frac{\partial^{2}}{\partial \theta} \left(\frac{\partial h}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{i}\right) = 0$
 $\frac{\partial^{2}}{\partial \theta} \left(\frac{\partial h}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{i}\right) = 0$
 $\frac{\partial^{2}}{\partial \theta} \left(\frac{\partial h}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{i}\right) = 0$
 $\frac{\partial^{2}}{\partial \theta} \left(\frac{\partial h}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{i}\right) = 0$
 $\frac{\partial^{2}}{\partial \theta} \left(\frac{\partial h}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{i}\right) = 0$
 $\frac{\partial^{2}}{\partial \theta} \left(\frac{\partial h}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{i}\right) = 0$
 $\frac{\partial^{2}}{\partial \theta} \left(\frac{\partial h}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{i}\right) = 0$
 $\frac{\partial^{2}}{\partial \theta} \left(\frac{\partial h}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{i}\right) = 0$
 $\frac{\partial^{2}}{\partial \theta} \left(\frac{\partial h}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{i}\right) = 0$
 $\frac{\partial^{2}}{\partial \theta} \left(\frac{\partial h}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{i}\right) = 0$
 $\frac{\partial^{2}}{\partial \theta} \left(\frac{\partial h}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{i}\right) = 0$
 $\frac{\partial^{2}}{\partial \theta} \left(\frac{\partial h}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{i}\right) = 0$
 $\frac{\partial^{2}}{\partial \theta} \left(\frac{\partial h}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{i}\right) = 0$
 $\frac{\partial^{2}}{\partial \theta} \left(\frac{\partial h}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{i}\right) = 0$
 $\frac{\partial^{2}}{\partial \theta} \left(\frac{\partial h}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{i}\right) = 0$
 $\frac{\partial^{2}}{\partial \theta} \left(\frac{\partial h}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{i}\right) = 0$
 $\frac{\partial^{2}}{\partial \theta} \left(\frac{\partial h}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{i}\right) = 0$
 $\frac{\partial^{2}}{\partial \theta} \left(\frac{\partial h}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{i}\right) = 0$
 $\frac{\partial^{2}}{\partial \theta} \left(\frac{\partial h}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{i}\right) = 0$
 $\frac{\partial^{2}}{\partial \theta} \left(\frac{\partial h}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{i}\right) = 0$
 $\frac{\partial^{2}}{\partial \theta} \left(\frac{\partial h}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{i}\right) = 0$
 $\frac{\partial^{2}}{\partial \theta} \left(\frac{\partial h}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{i}\right) = 0$
 $\frac{\partial^{2}}{\partial \theta} \left(\frac{\partial h}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{i}\right) = 0$
 $\frac{\partial^{2}}{\partial \theta} \left(\frac{\partial h}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{i}\right) = 0$
 $\frac{\partial^{2}}{\partial \theta} \left(\frac{\partial h}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{i}\right) = 0$
 $\frac{\partial^{2}}{\partial \theta} \left(\frac{\partial h}{\partial \theta} - \frac{\partial h}{\partial \theta} h \chi_{$

12.
$$T = X \sim N(M, 1) \stackrel{?}{\rightleftharpoons} - f \stackrel{?}{\rightleftharpoons} f \stackrel{$$

1. 日历多天届的社局与C-R下层为 20(1-0)

65
2.
$$h(\underline{x}, \theta) = f(x|\theta) \pi(\theta) = f(||x|\theta)|| f(||x|\theta) = f(||x|\theta) \pi(||x|\theta) = f(||x|\theta)|| f(||x|\theta)||$$

OB = J-Elnx

8.(1) $\pi(\theta|X) = \frac{f(x_1, x_2, \dots, x_n|\theta)}{\int_{\max} \{x_{n_1}, y_2, \dots, x_n|\theta\}} \pi(\theta) d\theta = \frac{(n+\beta) \delta(\max(x_{(n_1}, \theta_0))}{\theta^{n+\alpha+1}}$

建企业考数为n+β+1的mux(mi,0)的物态批合布。 、中的香托分布为共轭失驻分布

 $(2) \stackrel{\circ}{\theta_{\mathcal{B}}} = \stackrel{\circ}{\overline{\Box}} \int \stackrel{too}{\theta} \cdot \overline{\tau}(|\theta||_{\mathcal{H}}) d\theta = \frac{(n+\beta) \max\{x_{(n)}, \theta_{o}\}}{n+\beta-1}$