	Name = Vincet Mehan	Poge No.:
		Date:
	Roll no. = 102/117/29	MTWTFSS
-		
_	Solution=1	
_	Comple of Size no in tak	246
	Sample of Size n is take Jerom Novimal population parameter = 81 mean	
	Jesom Novimal population	
	parameter = 81 mean	
	AZ VOH	
	Mascimum likelihood Estim	ation
	of these two parameters.	
	065	
	Normal density is _6c-H)2	
	-(SC-H)	
	Posimal density $\frac{1}{3}$ $\frac{-(3C-H)^2}{2\sigma^2}$	
	1(x) M, 0) V2 TT 02	
	VQ)[0-	
	· · · · · · · · · · · · · · · · · · ·	y Xn
	Joint density of (X-1, X-	20
	O U n	-(ci-M)
	1 (A1, 92) = TT 1	, 20-2
	[=1 \2TLO2	22
		-(xi-01)
	n	e 2(0 2)
	Z	
	1 271(02)	

Page No.:
Date:
M T W T F S S

$$= \sum_{i}^{h} -n \ln \left(\sqrt{2\pi \theta_2}\right) - \left(x_i^2 - \theta_1\right)^2$$

$$= -\frac{n}{2} \ln \left(2\pi\right) - \frac{n}{2} \ln \left(2\right) - \frac{n}{2} \left(\left(x\right) - \frac{n}{2}\right)^{2}$$

$$= -\frac{n}{2} \ln \left(2\pi\right) - \frac{n}{2} \ln \left(2\right) - \frac{n}{2} \left(\left(x\right) - \frac{n}{2}\right)^{2}$$

$$= -\frac{n}{2} \ln \left(2\pi\right) - \frac{n}{2} \ln \left(2\right) - \frac{n}{2} \left(\left(x\right) - \frac{n}{2}\right)^{2}$$

$$\frac{1}{2} - \frac{n(n(\theta_2) - \frac{h}{2}(x_i)^2 - n\theta_i^2 + \theta_i}{2\theta_2}$$

$$\frac{1}{2} \frac{2\theta_2}{2\theta_2} \frac{\theta_2}{\theta_2}$$

Diff west O,

(O1,5 5C) Sample mean Diff wit 02

$$-n \cdot \theta_{2} + \frac{2(\alpha i)^{2}}{2(\theta_{2})^{2}} + \frac{2\theta_{2}^{2}}{2(\theta_{2})^{2}} + \frac{2\theta_{2}^{2}}{2(\theta_{2})^{2}}$$

$$-n\theta_{2} + \frac{2(\alpha i)^{2}}{2(\theta_{2})^{2}} + \frac{2\theta_{1}}{2(\theta_{2})^{2}}$$

$$-n\theta_{2} + \frac{2(\alpha i)^{2}}{2(\theta_{2})^{2}} + \frac{2\theta_{1}}{2(\alpha i)^{2}} + \frac{2\theta_{1}}{2(\alpha i)^{2}}$$

$$-n\theta_{2} + \frac{2}{2} \frac$$

-1	10=2 Viheet Mehay Roll no. 102117 129	Quick Work Page No.: Date:	
	Solza	the Test	
	Sample. From B (m,0) MLE of O parameter.	Grandom	
	dample. From B (m,0)		
	Parameter.		
	PDF of Binomial =		
	0 -0 is3-ma + 323	n-k	
	$f(k;n,p) = (k)p^{k}(1-p)^{n-k}$		
	according Griven =>		
	$f(n; n, 0) \ge \binom{n}{n} Q (1-1)$	n-n	
	1(1) 11/9/ (1-1)		
	L(zijm,0) = Joint Pdf (s	$x_1 = -x_n, \theta$	
	$n m_{-} \alpha i \Lambda$	- m-xi	
	= A m xi 0 xi (1-	0)	
	taking log on both sides		
	Tooking log on born sices		
	In(L(n,0)) = = In(ncx	1+ sciln8+	
	201		
	(m-xi) Cn (1-0)	

