7. (a) The likelihood for the data is:

$$L(\theta \mid \beta) = P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times \cdots \times P(\beta \mid \theta)$$

$$= P(\beta \mid \theta) \times P$$

d	The) 2	0460.100	مان د د د له	ıd a	or dia	1		dicad	الما	مادر	4.0			2 - 10		
W()	(1)(- 1	1912	distribu (, Y) a	feu u	B)P(β(x):	= f((X, /	3) P(B)	mean		Uru	VUITO	(SC)	٤:
	P	(B)	= jjp(P _i) = 川	125% es	P(- =	ز ٤-(آ	262	exp(-	北京	β_i^2						
. ^	م د این	, R ,	(<u> </u>	J ⁿ exp(-	1_5	TV	(B . 5	0.4	.72\/	1_,2_	-(:	۲,					
7	(XIX) H																
		-	(0/32)" (1/262)	exp(.	15.5	[Y;-	いっけま	ڗڵٳٵ)]-=	工工品						
le	, The	2 m	node	of the or, The lata and	e post	erior	distrib	ution	con !	be fo	und 1	by n	axim	sizing	the	log r:	th-
	of A	e	Poster!	or', Th	e ho	de a	orrespor	ds t	to the	e in	st li	rely	valu	es o	the	aeff	iclo
	B gi	ren	the o	lata ano	l -the	prior	`.										
	2. 4	و راملہ	ه باعد	المامار	- ar	do	lac ac	ve 60 1-			2006	n B				20. al	4-1
	100	hand	١	denlyativ	5 X.:	B. V.	T P	s tenu	r wa	ן וצאן	ect	בין ש	una	SCPTA	g it	equei	TOL
	WE	, mw e	: 62	Z (y; -	2	היינו		5 30									
	This	equ	atlon i	s equaler	nt to	the	nor ma	l equ	a -flon	for	ridge	e res	ressl:	on . (Hen a	е, в	he
	ridge	neg	ression	s equaler estimate	کا ج	Loth	pode	Co-O	the 1	mean	of -	the "	Post	erior	diser	1bn+10	n
	under	·the	e norm	al propr.													