HW.4		h	- EV
Co (ii) Attendance ra (iii) Attendance ra (b) WILL [To] = Ti = (Xi) log L (To) = \(\subseteq (Xi) That is six \(\subseteq \) \(\frac{d}{d} \) (\(\subseteq (Xi) \) (c) L (\(\subseteq (X \tau \)) (c) L (\(\subseteq (X \t	xie-10 109L(1)=	[(Xilog (No)- No - log	(x:h)
Q1 (a) (1) L (x3)= 11;=1 2	XI) d. laLU1 = 5	(Xi to de loyly	ا ع د او
	7 ME = 45 XI =	X = 80 + 73 + 68 + 56 +	43 = 6
	MILE TO ST	13	W.
(ii) Attendance ra	1 xilli-tt-1 ni-xi	1 以生日人丁二人	1 /3
(Xi)	(710) (1 110)	log (1 - To))	19
that is a district that is	Xi log(ho) + (hi xi)	1-5 d 1001 176	5 1-xi+
TIO = SENI - TIO LOGICTIO)	= 1 TIO 1-11,	98+29+43 352 3	Fa Th
ZI CII) SO TO =	e 100 X2	+3x120 560 0.	58.
(c) L (ats t) = 11t= Xt	- X - SIJ IN A	(diB)= Z Atlay (dtB	t)-52-6
Joyl (x+Bt)= E (xt log)	(1)-(dy)- log(Xt)!)	t=1	g (NEZ)
Q2 (a)	AUDW STEETS WILLA	aprocess like to the	0 73
F&(x)=P(0 <x)=p(< td=""><td>X, \(\times \times </td><td>Appens As AvFW= 1</td><td>SIN DE</td></x)=p(<>	X, \(\times \times	Appens As AvFW= 1	SIN DE
= Trial P(X)	$(x) = [x(x)]^2$	50	(X x x x x x x x x x x x x x x x x x x
1000	= (\$), X, N-1	CA - F(X)= 9	0 000 08
Ja(x)= +	7 (8) = 0 (8)	So F(X)= { (2)	oth
(b) LW=THEDY	e-x4:= 1,00	II ''	
109 LW= "Noo 4 109 LW = 10" 50 x= 10"	27311	d 210/LW	
at X	7=111 NY	d=191W = - 12:00.	
50 X= 3	YI Since Ziel	Languality	
	T(X)	= X>0	
- Civi	图 到 入 130	a transformation of Con	mmo rano
	& tollows Inver	se Camma distrib	ation—
	2~ Inverse	Gamma (h.)	

MLE of alpha: 95.79831

MLE of beta: -10.26732

90% CI for lambda: 1.597972 2.227148

The CI contains the true value of lambda.

Coverage rate of 90% CI: 0.92