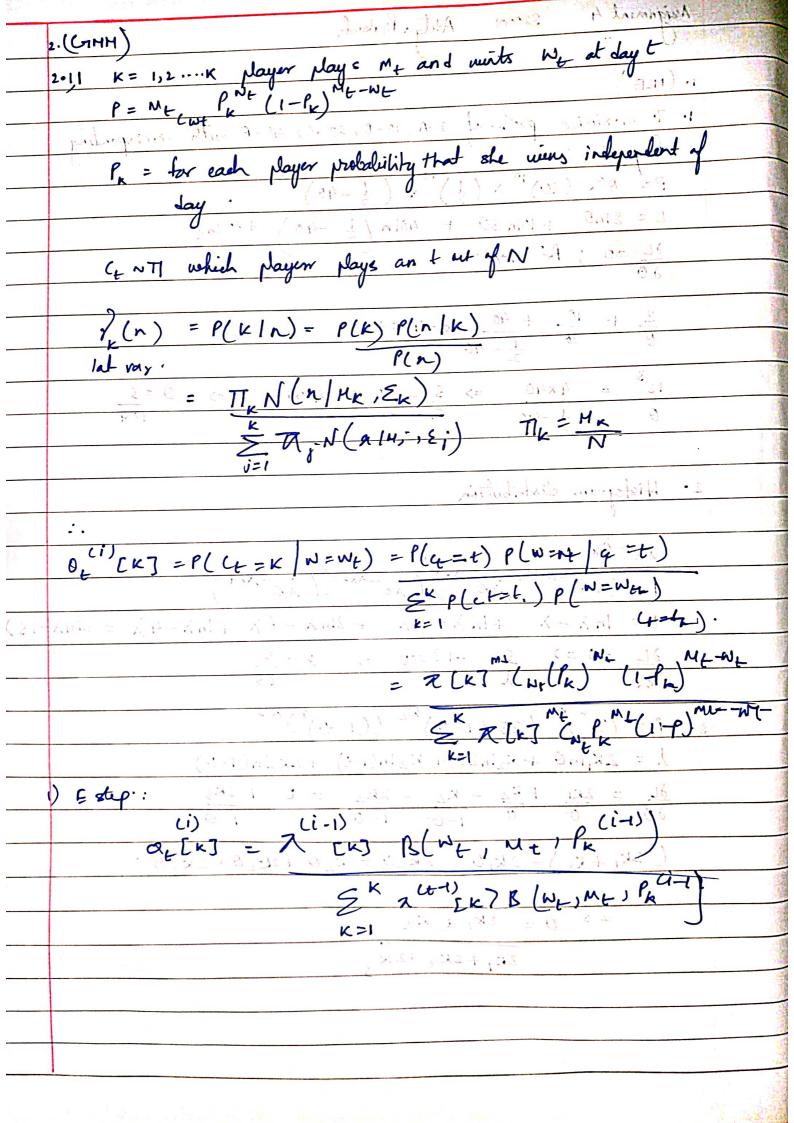
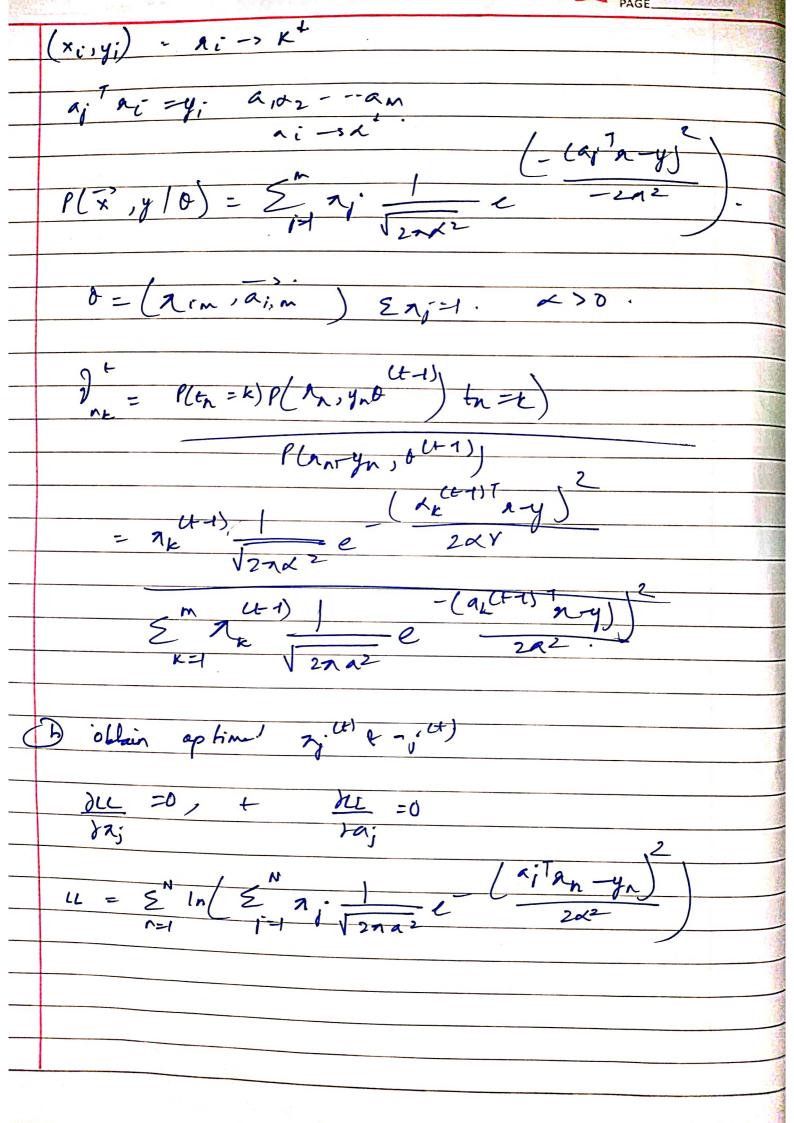
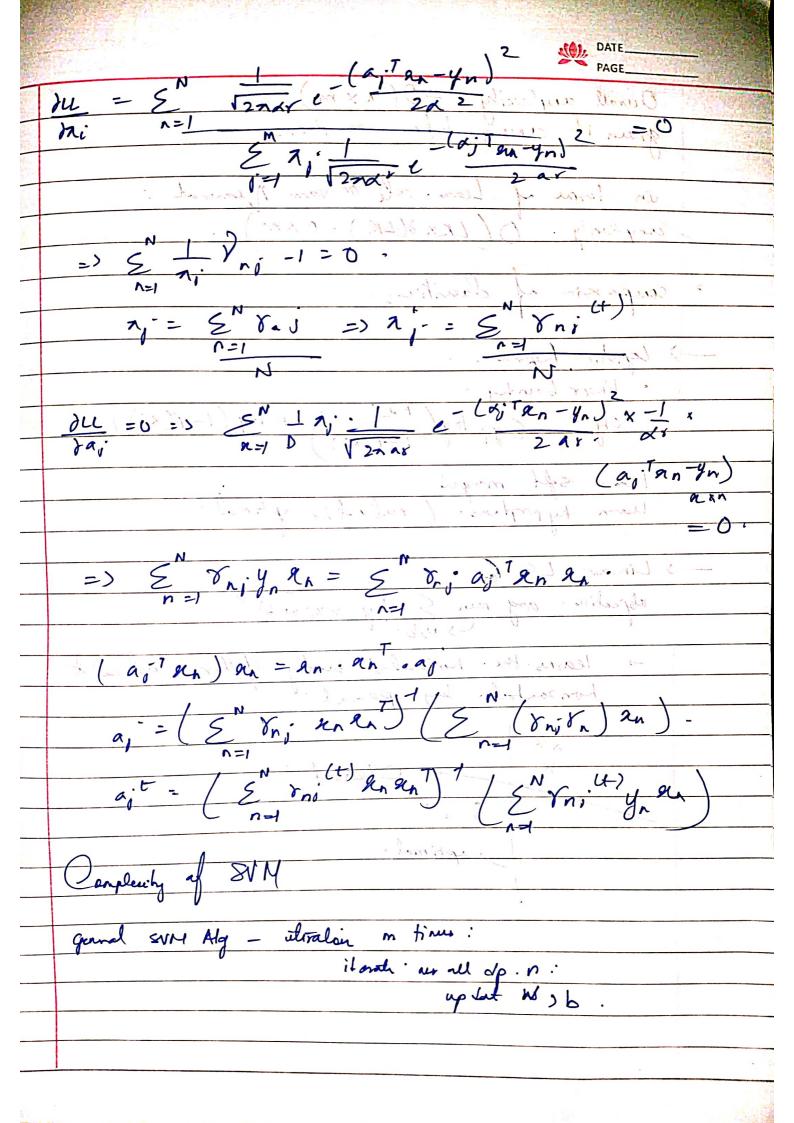
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7	1. (MLE)		1 11.1
	1. To maximize prob. a	2-A, 10-B, 60-C, 40-F	with corresponding
	frequencus 10	60 Military 1048	ow who a few war
40	P= 02x (30) x ($(\frac{1}{2})^{60} \times (\frac{1}{2} - 40)$	· has
7 2	$L = 2 \ln \theta + 10 \ln 3\theta$	+ 40ln/1 -40 \ +60) In 1
- 税	11 =0; for max.	. Horsen spale an trad	dayler Iran
	06	N. A. M.	", 1
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6595	2 + 10 + 40 0 H 1 -4	x -4 = 0:119 = (11.11	
144			
100	$\frac{12}{0} = \frac{4 \times 40}{1 - 40} =$	2 -120 = 400	104
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	2. Histogram des Insulu	· M	
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	β= (xe-x) (xe	- \) (\le - \k3) (\le - \k4	
	(b= ln x - x + ln	$\lambda - 2\lambda + 2 \ln \lambda - 6\lambda$	$+\ln\lambda - 4\lambda = \sin\lambda - 13\lambda$
100	411, <u>DL</u> =0 => S.,	$-13=0 = \lambda = \frac{5}{10}$	
A-II/III			
77	3. 1 = (0,) (20 L	1-9) K2 ((1-0)) K3	
THE	1 = 2K.100 + Kaln	20 + K2 In(1-0) + 2K3/n(1	-0)
THE	dL = 2K1 + K2.	$-K_2 - 2k_2 = 0 + 2$	K3 : 1920 3 (1
	0000	$\frac{-K_2 - 2K_2 = D + 2}{1 - O - 1 - O - 1}$	-0(1)
	(2k, + k, \= 2k, C	$9 - 2k_20 = k_20 + 2k_20$	+2k30.
	11-12) 24	Jour He	
	=> 0 = 24	1 + K2	
	24.	+ SK2 +2K3	



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	log hikelihood = Tr P(N=Nt)	
	5 - 1	ME-W+)
	= 7 Exxx Cwf Px (1-Px)	137
- 100	t=1 K=1	1
	N / W ML WE	Me-Wel
4/	U(AK,PK) = 5 In (& AK CNEPK (1-PK	
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	1 ML (Nf +) 1 1/2 => 5 7/2 (Nf +) 1/2 Nf /2 (Nf +)) 1 -CM+-WJ)
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-	=> 1k E Qt [K]Nt - EQ [K	7N~)
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	P. = S. Qt reJNt	
	PK = ZN Q+ CKJNF	
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	and. The = NR	
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	Ju = E t * M+ (N+ Pk (1-Pk)	=0.
	tax ta	
	22	
	(a) Par = P(L=k nn, yn, 0 (4)	
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	combridy. O(LKX dLLR). NXM).	JA.
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