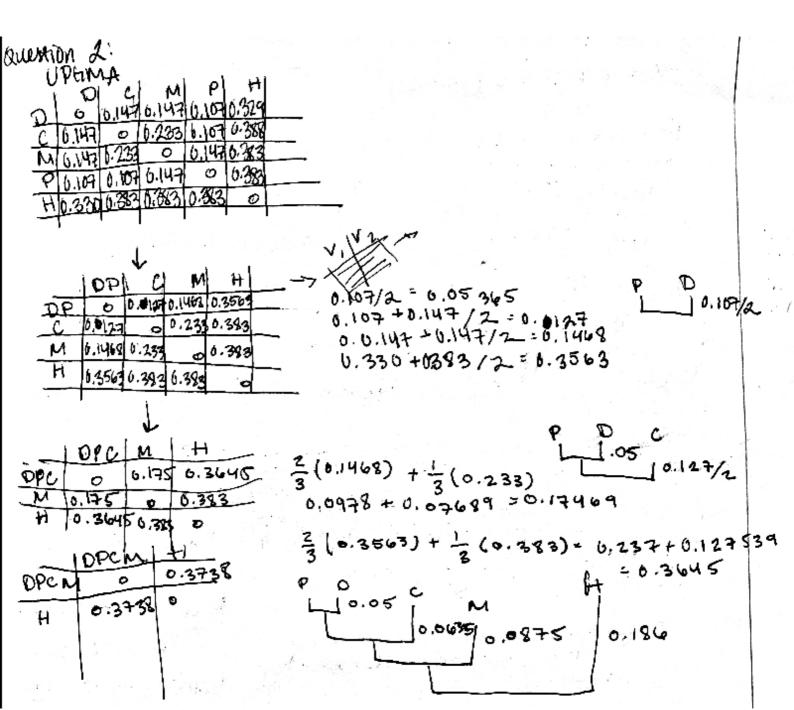
Λ.		40,11	
(JUL	Uxtion 3	EQ.ij/tax	
and produce the second		Linhan Human Average	
	24 0 H 0 1 1 2 3 2 0	107 0.395 0.434	
	ouse 0.14 1.232 0 0	1468 0.383 0.30311	
ن	Pizy 0.107 0.107 0.1468 Turan 0.57 0.383 0.383	0 0.383 0,248	
'.	- I and a second		- 1 1 1 2 2 1 (h 299 n 440)
0	V m	urge car and Pig	Vcot = 10.1073+1 (0.289-0.248)
	Day Pia/cast Ma	mal Human Averages	Veat = 0.0745
	Dog 0 0.0435	137 0.3296 0.2695	Vpig - 2(0.01073)+2(0.248-0.009)
	1.7/00/0/3	0 0.3830 0.333	Vpig=0.0327667
	Mouse 0.14 0.1365		cas Pig
	1	1	0.0745 0.0327
	1 -1	rge Nouse & Human	Pairly Distriction
		9/Car Mouse/Auman 0735 0.04176 0.0446	Rujik = Dix + Dix - Dig xample. 2
	P18/Cad 0.0735	0 10,04175	O (CDDog= Oco+ DPO - Dcp
	house/Human 0.044 0,	04175 0	
	1	•	October 147 + 0.107 - 0.107
	V 1	There is no particular group to be made.	5
		L am amitmoly	Pep(Dog) = 0.0735
		adding Dog to additing	Nows = 1/2 (0.3830) + 1/2 (6.303n-0.49
	1 Dog/Pig/Cat 1	moure/Ahman	Vmause = 0.09775
0		0.006125	VHuman = 0.28 525
	3		mouse human
Wor	ne/Human 0.006125	0	0.09778 0.28525
	\		VD00=1 6 0000 1 10 1200-0.11
	Mar		Voog=1 (0.0735)+1 (0.11750-0.11
	(MH) = On - 1	MH + POUMH-DOOGPig	1 cat Vog= 0.03925
	O cogypc		Vpiq cat (pay) = 1 (0.0735) + 2 (0.11525
		2	71900 11 2 - 6.1
	= 0.000	6125	= 0.03425
	<i>y</i> 0 . •	-	Mouse Human pig Cat Dog
With the state of			0.064 0.0
0			0.006,250.392
			-6/a
And Constitution on the			



Jukes Cantor model equal probabilities Pp=(1/4 1/4 1/4 1/4) continuous time model rate matrix M(+). got -> use to get the Harkov medrix $M(t) = e^{Qt} = \begin{cases} a/3 & 1-a & a/3 & a/3 \\ a/3 & a/3 & 1-a & a/3 \\ a/3 & a/3 & a/3 & 1-a \end{cases}$ Markov matrix a=a(+)=3/(1-e-4/3 x+) Table 1 A AC ATT CGA AAK 000 Acc A c/c) A A C A T A C 4 A A A C A T A C 4 A C A T A C 4 C Cart AAA A ca Mouse AAA Pig AT 4 AAA AT9 Hurran CAC Pog CUA 8se (50,51) = - 3 In(1 - 4 2) CAC Mouse €AC CAC Human cdc example from book. CTA dbe (50,51)=-3 1n (1-4 €) SO = ATTOAS SI = ATGUEC à - 2/6 = 0.3333 De(50(591) = -3 In(1-4(2)) = 0.4408 swe abbones They Dog | cat | Mouse | pig | Human 4/30 6.1470.383 9/30 House 6/30 4/30 0 6.107 6.107 10.147 3/30 4/30

3130

distance matrix

W 6.30 6.383 6.383 6.383 0