	Name: Roll:																
				CSE 5	56	: Nat	ural	Lan	guaç	ge Pı	roc	cessing (NLP) — (QUIZ - 1			
	D	ate: 7	th Feb	2025					Dura	ation	: 3	0 mins.		Max	Marks: 2	0	
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The	com	plex	hous	es r	ma	rried	а	nd	Sil	ngle		soldiers	and	their	families		
0	N	N	VB		•	JJ		0	,	JJ		NN	0	PRP	NN	0	
Т	The		old	n	man			the		boa	at						
0		N	NN		VB			0		NN	١	0	*No pa	*No partial marking for any mistak			ke.
Una slam Toke	rguably trophic	Fedees in \	errer, N Wimble	Nadal, edon (8	an 3), l	d Djo Frenc	kovic h Op	ch ar en (re th (14),	e bea	st t	tennis pla Istralian (ayers eve Open (9),	wing senten r and they a respectively vords and p	are leading		and
	ens: 43 es: 29																
. D	efine <i>N</i>	_c in G	ood-Tu	uring S	mc	oothin	g.									[1]	
Num	iber of	words	with fr	equen	су	C.											
	or a vo ases) d		-									-	ension <i>H</i> ,	how many	paramet	ers (witl	hou
a	a. Inpu	t-to-h	idden l	ayer							V	x H					
b. Hidden-to-output layer						2C x H x V											

5. For the given merge rules [r\$, er\$, ew, new, lo, low, newer\$, low\$], tokenize the word " new Show steps.	vest" using BPE. [2]
$n-e-w-e-s-t-\$ \Rightarrow n-ew-e-s-t-\$ \Rightarrow new-e-s-t-\$$	
No marks without steps.	
6. Write the equations for an LSTM unit at timestep <i>t</i> . Define all necessary variables appropria	itely. [7]
Check slides	
2 marks for each gate. An incorrect equation will fetch zero for that gate. 1 mark for defining all variables.	