Hon	rework Z						
1						19	Alexander Con-
	a) 7!	=5040	possil	ilities			
	<u> </u>	30 10	1				
	$\left(\frac{q!}{q!}\right)$	=7!=50	040 po	ssibil	ities		
	75						
	3.0					Carlotte State Smith	41 - 4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
2.			26=6	2-3	-0111110		
		- Cu		-000000	100000		
		The second secon		00000	100010		į ,
		9		000110	100101	AAB	1-1-
	1 316 6170	ped are elimi	inatel-2	001001	101001		
) 31 possi	bilities		001101	101011		
		# b b T b 1 2 3	37	00111	101101		
b) Find bit	s that as	e same	01000	11 0110		
	torward su	and back not ract fro	MA	01010	110100	Programme 1	n de la servició de la companya de l
64.0	31-8=	23		01011	1000		en de la lace de la company
	<u></u>			0 1010	11010		
3.			100	01100	1110		and the second second
7	12: = 0	124 poss hich cand	sibities	; becau	se we	only co	ve abou
	12-6)6. W	hich cand	idates o	re chos	en, not	the dif	tevent
	0	ders of	choice:	5,			
	11- 7-	20 0000	Hitio	c		e for the second	
<u> </u>) 6:- 14	20 possil	ortitie	2		- 19 5 5	
	是"大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大	= 120 po	11 11 11	1100 1		110	10 M

12.11 = 66 possibilities 26.25.24.23.22.21.20.19 26 is much better possibilities digits, 5 capital letters, one spec $10^{2} = 100$ $26^{5} = 11.881,376$ $16^{2} \times 26^{5} \times 12 = 1.42e^{10} \times 168 = 12 = 12$ abed 1 point right 0.25 wrong P(3 wrong) = \frac{2}{5} probability of getting wrong

P(3 wrong) = \frac{2}{5} = \frac{3}{5} probability 4-.75=3.75 points

P(2 wrong) = \frac{1}{2} wrong probability 4-.5=3.5 points

P(0 wrong) = \frac{1}{6} probability 4-0=4 points