Cose -strate 3 Hampined Zafox 19-EE-328		
Hamp	ad Zafor	19-88-328
/11 A	Questi	on no.1
(A) fa	Kiston es a	great country.
In E	nglish, There	are 26 Alphabets
and	14 punctuation	marks.
70:	tol no. of chav.	acters = 26+14=40
Probabi	lity of any	character is= 1
thrif wighting with contraction activistic time contract province and the contraction contraction.		90
Subse	went character	s are independent
0/ 0	re onother a	nd all character
die	equally like	ly .
	P = ALB =	> P(A,B)=P(A).P(B)
There	are 28 char	acters in sendence
4 Pakis	ten is a great	country.". So the
likelih	and of this	conto, 00 me
PCCL	good of this	sentence es
	(40) (40) (40) x	40)
Production (American Constitution Constitution (American Constitution		
	(40) =	1.3877×10-45
This	is the probabili	its of writing ich is very very small.
that	contenia whi	ch is very losen com

The universe was excepted out of pure chance. Total no. of Characters in English = 26+14=40
Probability of any Character is = 1 Subsequent characters are independent
of one onother and all the characters
are equally likely

PEALB => P(A, B) = P(A) - P(B) There are 44 characters in the given sentence, likelihood of the sentence $P(S) = \left(\frac{1}{90}\right) \times \left(\frac{1}{90}\right) \times \cdots \times \left(\frac{1}{90}\right)$ $=\left(\begin{array}{c|c} 1 & 44 \\ \hline 46 & 3.2311 \times 10^{-71} \end{array}\right)$ This is the propobility to write

the given sustences, which is very

very small.

Occestion No. 2 (A) What is probability? Total number of characters in constitution = 10,000,000 = 10M Total number of characters in English
= 26 + 14= 40 Probability of any character is = 1 P = A18 => P(A, R)= P(A).P(B) P(5)= (4) x (40) x ... x (90) $= (0.25)^{10M} = (0.25)^{10M}$ This is the probability to write the the constitution.

Let us assume __?
Total number of characters in English = 90 Probability of an character is = 1 Time expected to correctly type characters = 900 sec Number of des seconds in day
2 24x60x60 = 86400 seconds Total characters in constitution = 10,000,000 Time required = 2000 2 40x 10 M= 4,000,000,000 number of days required = 4,000,000,000 = 4830 days

Question no. 3 A) To exche a universe like this One we need to paske 10 % year-tions and 2 atoms one yequired in each resotion. The bitting chance without my reaction 1-p=9, where p is he number of atoms. total number of stom = 1000 The probability of hitting vendomly is = 9 = 1-P 1080 This is the probability of hilting one yeaction, takes place in I second. 2 atoms see required in one reaction. Total namber of otens - 1680 Total number of yeartions = 1600 = 10

Commission		Witt of Name of
	no. A secs in one year = 12 x30x 24x 60x60	
	- 31/0 4000 Years required = 1040	
	31104000	
	= 3.25 x 10 32 years	
	This is the required time years	
The subject of the later of the	to creste this universe	viine and
	Thinking problem.	
	As mentioned above,	
	it takes 16 stoms and 16 reactions	
emone energy (energy)	to creste the universe, so the	
	universe con not be excepted by chance	
Min. Section and the		
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eranoren		
ette filosophia a consider		
		of California