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Question 1.	Ass		Date	E No. 1 AT - 447)
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Question Z	,	Dista	No.	
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1. For this source, H(x) =	I Px 109 -		1988	
10	xeT PX	100 0 15		
= 0.23 log 0.23 + 0.04 log 0.04	+ 0.12	109 0.12	143	
2.168 bit 2.168 bire				
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4 2	9.65			
Z. Huffman code	D ->	100		
$A \rightarrow 00$ $V \rightarrow 0$		111001	mary reference	
E -> @ 11 0 \ a -> 1		1111	Carlo Vie II	
$T \rightarrow \bigcirc 00$	10001	> 10		
0 -> 110 P-> 11] 0			
3. Shannon code	LHS in binary	[1092 PXX)7	codeword	
Px ZIPx(x)	0.000000	3	000	9
A 0.23 . 0	0.001	4	0011	
0.13	0.0 01	5	0 11	
0.00	0.0/11/	5	1001)	T.
K 0.12	0.10011	5 ~	10[1]	0
V 0:12	0.10111	5	110101	*
1 0.11	0.1001	6	111000	4
P 0.03	0.11000	6	111	
7 0.03	AND THE PROPERTY OF THE PROPER	66		The state of the s
E 0.04	7			
99		A Company		
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	A.S.	250		4

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Question 3.	Date No.
1. when k=1	
$E[L_{K}(x)] \leq \log x + 1$	
And then recall the property of huffman to	de.
$E(k(x)) \leq k \log x + 1$	
$\sum_{m\to\infty} \frac{1}{mk} \sum_{i=1}^{m} (k(x_i^k)) = R^{*}(x_i^k)$	e All
m-100 mk i=1	
	4 5 6 5 C
We use the upper bound to achieve, so	
$\frac{1}{mk}\sum_{i=1}^{m} l_{R}(x_{i}^{k}) - H(x_{i}) = \frac{2}{k}, Z_{1} = \frac{1}{mk}$	7-10/xik) - Hxi)
= = = = = = = = = =	are i.i.d.
mk 1=1	
1 1 mm bors , and	change expression
Then use weak law of large numbers, and	, , , , , , , , , , , , , , , , , , ,
2 1- NT 1 - W 2	1.
we show lim Pr [mk]= lk(xik) >H(x) + 2	J = 0
3. Encoder: $e(B x^n) = \sum_{n=1}^{\infty} (x^n y^n) (x^n)$	<i>e</i> .
3. Enione: (X)	•
Production	
	1.90 5.00 A
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