

	Grade: AA/ AB / BB / BC / CC / CO / DO T. R. U. S. T. Signature of the Faculty in-Charge with date
_	Name Arya Vall
_	Batch: AZ
	Roll Number 16010421063
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	that a entropy of image given where 0205099
	denote gray level intensities
	The second of th
Q2)	Consider Source 5 = \{ So. So. So. So. \}
()	Probabilities P= \$1, 1, 136
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Find a) self information of each message
	b) Entropy of source s
(3)	An event has 4 possible outcomes with propositions of occupies
	P1=1 P2-1 P3-1 P4-1
	holonia sele con la
	System. Also obtain the rate of information if there are 16
	outromes bec
94)	
	A code is composed of dats and dashes assuming that a (-) is three to
	as and as a got and has his accomplished
	in a contraction if a dot lasts for look and same time int
	K.J. Somaiya College of Engineering, Vidyavihar (E), Mumbai - 400 077.

	albred Setreen symbols
Any	$21) P(22) = 8 = 1 \\ 64 = 8$
1	64 8
	8(22) - 8 - 1
	P(20) = 8 = 1 64 8
	P(50) = 16 = 1 64 4
	P(a) = 32 = 1 64 2
	\$4 L ,
	self intermation
	n. 109, 113
	1092 98 = 3bits
	m2 log2 18 = 3 bits
	m2 /09 18 = 2 5/B
	124
	mu log 12- 1 bits
	my 1032 12= 1 51B
	A 2.1 M
	Entropy = & Pilon 1800.
	= = = 1 log2 + 1 log2 + + 1 log2 + + 1 log2
	1 4 4 7,
	= 3+3+1+1 - 1.75 bits/symbol
The state of the s	



Batch 4) Roll No. /60/09/1063 Experiment / assignment / tutorial No. Grade AA/AB/BB/BC/CC/CD/DD

Samples of the Faculty In Charge with date

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		att ander harm Shamph. I's produktion in account a party compliant between copy many the company and produced
e) self informati	O. C.) an appropriate to make a production of the second second	winds, with the particular and other the first arminiments which in decimal and considerate and
St ft - I atermett		
Seltinformation - la	9,12 = 1 bil	
52 Pe-1	Committee of the Commit	
9		
self information =	log2 \$4 - 2bit	
5, 0		
53 P3 - 1	1	
self int 1.	1 11/2 > 4 - 4	
self information- 1	092 12- 2011	•
	V	
b) Entropg = & Pilon	p.	- midwaster also
ie) II)	12.1	
= 1 1092 1	1000 4 1 600 4	
2 21 4	1 4 4	deliner - Property
= 1+1,2+1	1,2	4 9 20 3 3
2 4 4		
= 1.5 bib sea	nd 1.5 bit bymbe	
	301 41 7	
	A A	
	1 October 1	die C. V.
		The state of the s
	4 1 4 100	

3)	self information 4 4 4
	So relé informet ion : leg. 110 = leg. 2 = 1 dit
	$2elf information = log_2 f = 2bit$
	53 P3-1 8
	selt intermetions tog, & = 3 bit
	self information = log 28 = 3 bit
	Entropy = & Pilog & L
3	= 1 x log = 7 + f x log = 4 + 1 log = 8 + 1 log = 8
	$= \frac{1}{2} \frac{1}{4} + \frac{1}{4} \frac{2}{8} + \frac{1}{8} \frac{3}{8} + \frac{1}{8} \frac{3}{8}$
	= 0 1.75 hits/symbol
	Rate of information= Entropy x outcomes (sec = 1.75 x 16 = 28 bits Bec



Batch: A) Roll No.: 1 60 18 42 10 63 Experiment / assignment / tutorial No. Grade: AA/AB / BB / BC / CC / CD / DD

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94)	Pot & Pash = 1
	Part e Part = 1
	7
	Plate 3
	Pdash = 1 - Pdot
	4
	Self information dat = 1092 (3) loga (4)
	= 0,4150 bits
	Self information dush = loga(4) - 2 bits
	b) Entropy = & Pilegal
	= 3,0.4150 + 1,2
	= 0.81125 b16/sgmbol
	2121397001
	K.J. Somaiya College of Engineering, Vidyayibar (F) March is the second of the second

