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Coding Theory

n = necieved bit word c = coding word e= e1209 word

when we know the position of expres (n(x)(p*)(1-p)n-k

a = 1010110 e = 0101101

1010110 (ompare Cf or, (XOR) OD O O O O O

91 = [1 | 0 |] x= 10 4 orrors

 $p^{r}(1-p)^{n-r}$ p=0.05

= 736 7.289 X 10-6

≈ · 0.00000 7 289

(3) c = 1010110 p = 0.02 x = 1011111

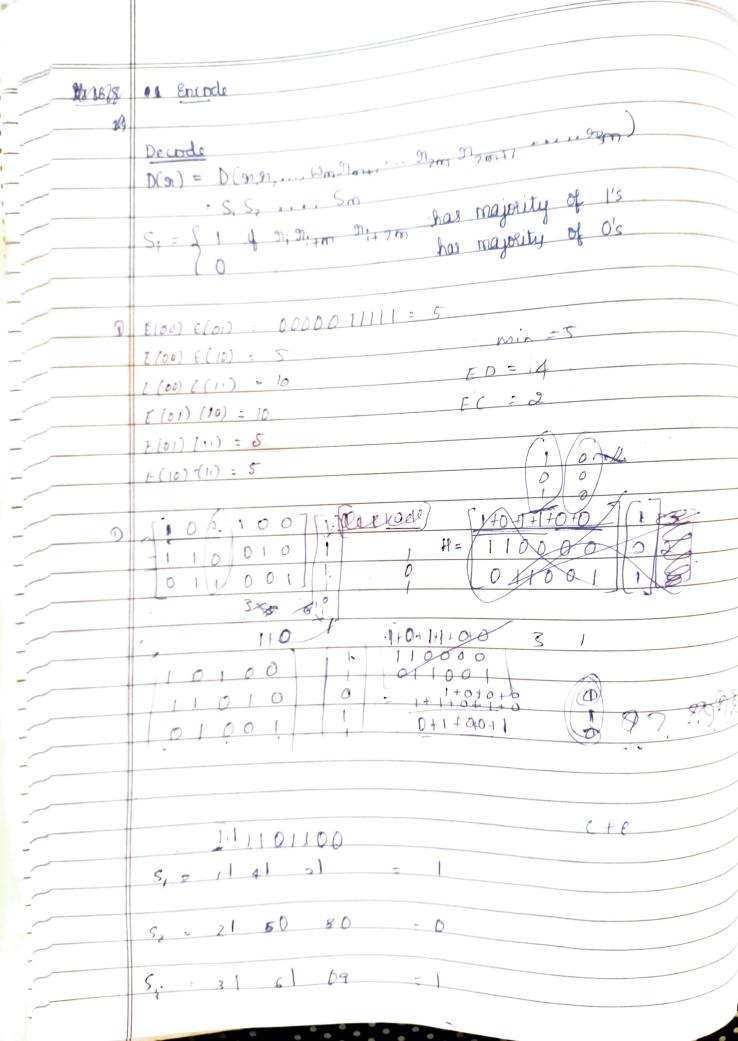
To get e, theck the changes C= 1010110 9= 101111 K= 2 errors in colon, whichever is

C= 000 | 00 | 3-1 changed will be marked I $= (0.02)^2 (1-0.02)^{3-1}$

= 0.000 **4008** 36

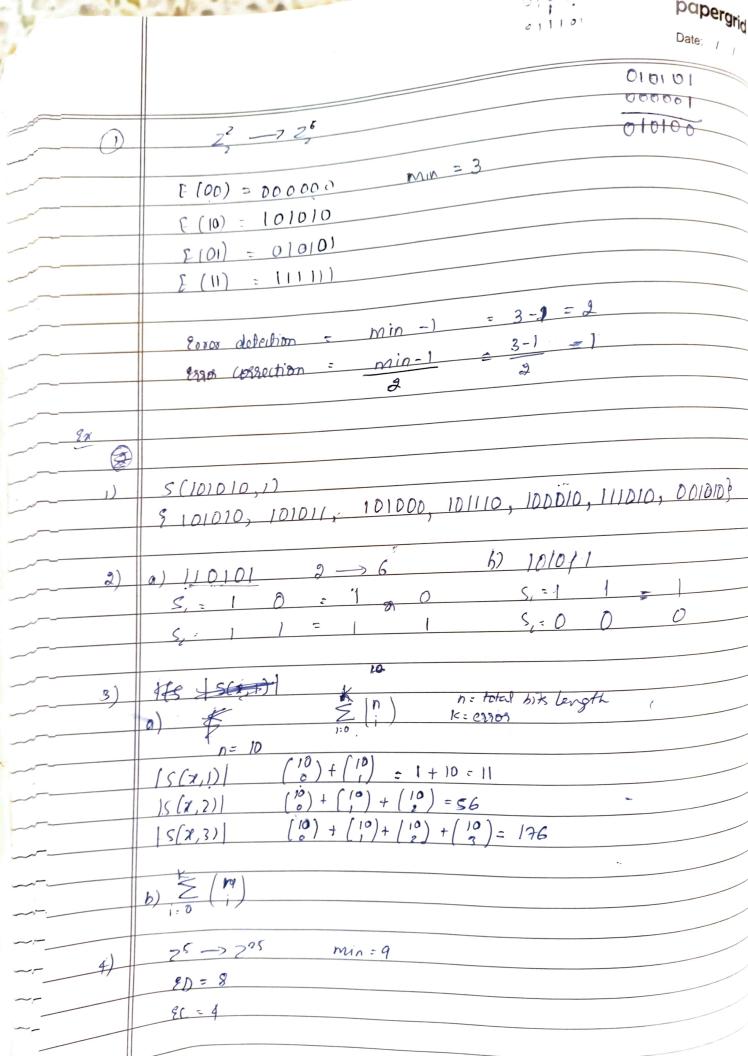
0 p=0.05 e=011011101 k=1

n=g $(\frac{9}{2})(0.05)(1-0.05)^8$ 0.2985



loding Theory C= 10110 75 (Z, +) P = 0.05 Y= 00110 10110. K = 1 $= p^{\kappa} (1-p)^{n-\kappa}$ = (0.05) (1-0.05)⁴ (2) c = 10110 $z \le p = 0.05$ i) 2 differ $\binom{n}{k} p^{k} (f-\rho)^{n-k}$ = (5/2) (0.05) 2 (1-0.05)3 11) atmost 2 $(5)(0.05)^{0}(1-0.05)^{5} + (5)(0.05)^{3}(1-0.05)^{4} + (5)(0.05)^{2}(1-0.05)^{4}$ (5) $(0.05)^3 (1-0.05)^2 + (5) (0.05)^4 (1-0.05)^1 + (5) (0.05)^5$

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$$E = \frac{1}{12} = \frac{1}{2} = \frac{2}{3} = \frac{2}{3}$$

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	= 110		
7.	G= 101107 H=	10100	
	Ť, , A	6 1	

	10100	ı
	11010	
J ₂ A	01,001	
	A^{T} .	
E(00) - Co. 7 [1 2 4 1 3] [a	-	_