

I. 2

9) 
$$P_{A} = \frac{1}{2}(10\times01 + 11\times11)$$
 $E(A,B) = -\frac{1}{2}\log_2\frac{1}{2} - \frac{1}{2}\log_2/2 = 1$ 

Es maximamente entrelogade

b)  $S_{B} = \frac{1}{2}(10\times01 - 11\times01 - 10\times11 + 11\times11)$ 
 $E(A,B) = S(S_{B}) = -\frac{1}{2}\log_2 2 + \frac{1}{2}\log_2 2 + \frac{1}$ 

I.5 1487 = 1017+110> P48= 101>601 + 1102 5101 3AB= 147 <41- = (1017 < 011+ 1107 <011+ 1017 <101+ 1107 <10 = 9AR + 1 (1107 COII + 1017 CIO) LO7= TV (OA PA) = LOAD PA= PA = 1 (10X01+111X11) = Ty ( 94) 1/19 by phose < 0> = Tr(+(10x01)+101x011+110x101+101x101)+1 C35 = Tr ( = (NOXON+101X101) = 0 P = 14><41 P2 = 14><4114><41=14><41 3: 20 K/K/K/ OKK EO K#K 3.0- 5 02 02 KKKK12K1 32 = 2 4x K/ (K) /= 0-ZAXYZKI = ZAYKYZKI 1=1 Como T (P)=1

II.2

$$g = \sum_{i} p_{i} p_{i}$$

$$= \sum_{i} p_{i} p_{i} p_{i}$$

$$= \sum_{i} p_{i} p_{i} p_{i}$$

$$= \sum_{i} p_{i}$$

19 19 = 0 100 = 9

II. S. 
$$g = x \cdot |\phi| \times |\phi| + (1 - x) = \frac{1}{4}$$

Tr  $g = x + (1 - x) = 1 + x$ 
 $g^{+} = g$ 
 $(x + (1 - x) > 0)$ 
 $(x + (1 - x) > 0)$