16.46 А и в - независиние собятие Grazans: A uB - negabrane P(AIB) = P(A)-To yarohio P(A1B) + P(A1B) = 1, mc P(A1B) = 1 - P(A1B) = 1 - P(A) = P(A) Umax P(A1B) = P(A), in e. Aub - nejahowwe N647 4 maja: &, C, T, ECZ Horimu: K = { gocman yaran }

L = { gocmann upani } Q= { a; c; z; acz} P(K) = = = P(C) = P(4) = 2 CoSantulu K.C. K. K. C. & Suarotymenentzen ogur west map xcz = P(K.C) - = P(K)-P(E), P(K-E) - = == == P(K) P(U) a P(C 4) = = P(C) - P(E) => => & ul, kut, Cut - negarheumen x, c u 4 ne elmentre regaliementen é colorginocorne P(K.C. W)= + , P(K) - P(C) - P(W) = 8 , m. e P(K-C-4) + P(K)-P(C) - P(4)

N6 4.12 4 Sucaa u 3 regiaa E gare, hrudianon 2 mago a) bez bozlyanyekwe 8) c bozlyanyekwen A1 - E I may - Senous 3 , A2 - E II may - Senous 3 A= { oba serve}, or e. A=A1.A2 a) All as - zahrcum P(A) - P(A1-A2) = P(A1) . P(A2/A1) = 4 - 8 = 4 8) Ar u Az matucume P(A) = P(A1-12) = P(A1) - P(A2) = \$ 4 = 18 N6.4 13 A = { ANANAC3 A = { Symem Syela A3 Az- [H3, As = [A3, A4 - [H3, A5 = [A3, A6-[1] A = A1 - A2 - A3 - AV - A5 - A6 P(A) = P(A1 - A2 - A3 - A4 - A5 - A6 3 = = P(A1) - P(A2/A1) . P(A3/A1A2) . P(AU/A1A2A3). · P(A5 | A1A2 A3 A4) - P(AB | A1A2 A3 A4 A5) = - 8 · 4 · 4 · 5 · 4 = Lo

N6.4.18 9 бассия, 6 герппа и 5 жистая в агупа Banusakan ogun was . Lauren: reprai wen zeneran A = { reprove 3 , B = { zeneson 3 , C = { regrow were greenin3 C = A+B P(C) = P(A+B) = P(A) + P(B) = \$0 + \$1 = \$20 = 0.58 N64.19 I chjerch = 0,7, I chjerch = 0,8 Ai = f I conject non i in factione 3

Ei = f I conject non i in factione 3

C = f inneres hoposoera 3 I Chocob. P(A1) = P(A2)=0,7; P(B1) = P(B2) = 0,8 C = A+B1 AIUBI- collegement => P(C) = P(A1-B1) = P(A1) + P(Be) - P(A1-B1) AIUBI- negaticulare => P(AI-BI)= 7(AI) -P(BI) => P(U= P(A1) + P(B1) - P(A1) - P(B4) = 0.7 - 0.2 - 0.7 - 0.8 = =0,94.

D. Chocos Togascine (C) granger I conject honou, a & you C = A1+B1 + A1-B1 + A, B1 + A1B1 P(D = P(A, B) + (A, B) + P(A, b) = 0,7.0,2 + 0,5.0,2 + 0,7.0 =0,04. III Chocod C = A1+B1 - A1 - B1 P(C) = P(A,B,) = P(A,) . P(B,) . 0,5 . 0,2 = 0,08 P(C)= 1-P(C)=1-0,06=0,94 Ear Maicrogan & tacagera, one C Suaraguementan ALTEBIBE, ALAEBIBE, ALAEBIBE, ALAEBIBE EN P(C) = P(A, A, B, B) = P(A) - P(A) P(B) P(B)= = 0,3.0,3.0,2.0,2:0,0036 P(C)=1-P(C)=1-0,9036 = 0,8964 N 6. 4. 20 Uz 100 uzgenin 10 Sax obarraa Ao = { nen ogana 3 , A1 = £ 1 Sgan 3 , AL - £ 2 Gans A = { hayome nounuma } A = Ao+ A1 + A2 Ao, A1 u A1 - necolineonia

 $P(A) = P(A_0 + A_1 + A_2) = P(A_0) + P(A_1) + P(A_2)$   $P(A_0) = \frac{m}{n}$   $m = C_{00}^{\frac{1}{2}} + C_{10}^{2} = C_{20}^{\frac{1}{2}} + n = C_{100}^{\frac{1}{2}}$   $P(A_0) = \frac{C_{20}^{\frac{1}{2}}}{C_{100}^{\frac{1}{2}}} + P(A_1) = \frac{C_{10}^{\frac{1}{2}} \cdot C_{20}^{\frac{1}{2}}}{C_{100}^{\frac{1}{2}}} + P(A_2) = \frac{C_{10}^{\frac{1}{2}} \cdot C_{20}^{\frac{1}{2}}}{C_{100}^{\frac{1}{2}}}$   $P(A) = \frac{C_{10}^{\frac{1}{2}} \cdot C_{20}^{\frac{1}{2}}}{C_{100}^{\frac{1}{2}}} + \frac{C_{10}^{\frac{1}{2}} \cdot C_{20}^{\frac{1}{2}}}{C_{100}^{\frac{1}{2}}} + \frac{C_{10}^{\frac{1}{2}} \cdot C_{20}^{\frac{1}{2}}}{C_{100}^{\frac{1}{2}}} \approx 0.98$   $P(A) = \frac{P(A)}{P(A)} = \frac{P(A)}{P(A)}$