1.26 P 38

Sot F: "lementage forctorine"

P(F) = P(I) (I) (I) (I)

= P(I) P(I) P(II)

= (1-P(I)) (1-P(I)) P(II)

= (1-9,1×9,1×9,2) (40,1×94) × 9,99

= 0,968

Sat F: "Attended le part X

P(F) = P(AENEX)+ P(ADNDX)+P(ACNED)

+ P(ABNBX)

- P(EX/AE)P(AE)+ P(DX/AD)P(AD)+

= P(EX/AE)P(AE)+ P(BX/AB)P(AB)

P(CX/AC)P(AC)+ P(BX/AB)P(AB)

= \frac{2}{5}x\frac{4}{4}+\frac{1}{4}x\frac{1}{4}+\frac{1}{3}x\frac{1}{4}

= \frac{1}{5}x\frac{4}{4}+\frac{1}{4}x\frac{1}{4}+\frac{1}{3}x\frac{1}{4}

= \frac{1}{5}x\frac{1}{4}+\frac{1}{4}x\frac{1}{4}+\frac{1}{5}x\frac{1}{4}

= \frac{1}{5}x\frac{1}{4}+\frac{1}{4}x\frac{1}{4}+\frac{1}{5}x\frac{1}{4}

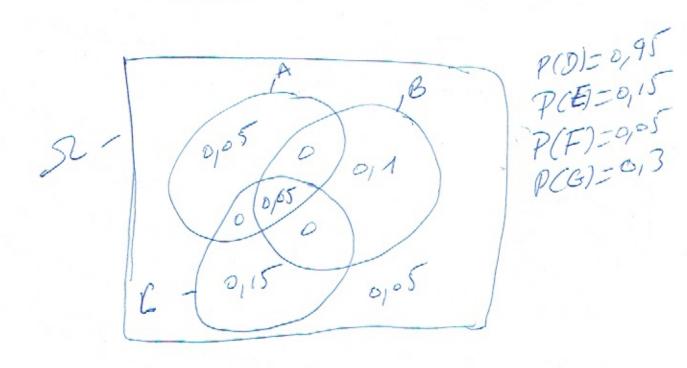
= \frac{1}{5}x\frac{1}{4}+\frac{1}{4}x\frac{1}{4}+\frac{1}{5}x\frac{1}{4}

= \frac{1}{5}x\frac{1}{4}+\frac{1}{12}=\frac{1}{60}

Exo3

P(A) = 0,7; P(B) = 0,75; P(C) = 0,80 P(AUB) = 0,8; P(AUC) = 0,85; P(BUC) = 0,9P(AUBUC) = 0,95

P(AAB) = P(A1+P(B)-P(AUB)=0,7+0,75-0,80=0,65 P(AAC) = P(A)+P(B)-P(AUC)=0,7+0,8-0,85=0,65 P(BAC) = P(B)+P(C)-P(BUC)=0,75+0,8-0,9=0,65 P(AABAC) = P(AUBUC)-P(AI-P(B)-P(C)+P(AAB)) +P(AAC)+P(BAC) $=0,95-0,7-0,75-0,8+3\times0,65=0,65$ 



A,B,C forment renepartetion de l'épace de maiques F, M, E constituent aux partetion de Popule nuveau de person Vapres le théorème de probabilités tétales on a: P(A)=P(A)+P(A)M)+P(A)E)=0,10+0,13+0,02=0,25 P(B)= P(B)F)+P(B)M)+P(B)E)-0,2+0,12+0,08-0,4 PCC) = 0,10+0,15+0,10=0,35 P(F)=P(F)A)+P(F)B)+P(F)C)=0,10+0,20+0,10=0,9 Je même P(M)=P(MAA)+P(MAB)+P(MAC)=0,13+0,12+0,15=0,4 P(E) = P(EDA)+P(EDB)+P(EDC)=0,02+0,08+0,10=0,2  $P(B/E) = \frac{P(BAE)}{P(E)} = \frac{0.08}{0.02} = 0.4$ P(M/C) = P(M/C) - 915 = 0/43 P(A/M) = P(A/M) = 0,13 = 0,325 P(M)  $P(M/A) = \frac{P(MAA) - \frac{9/3}{P(A)} = \frac{9}{9,25}$   $P(MAB/C) = \frac{P(MABAC)}{P(C)} = \frac{P(A)}{P(C)} = \frac{9}{9}$ P(FUM/c) = P(F/c)+P(M/c)-P(F/M/c)= = 0,35 + 9,35 = 0,7-1

T A OBOT Sil B = F ADBOT A B = ANBOT A B T ANBOTT B T ANBAT TAMBAT S.2 S= (ANBOT) F= (ANB NTWANBOT) & (ANB MT) M= ANBOTUANBOTUANBOTUANBOT P(ANBI+P(ANB)=P(A)P(B)+P(A)P(B) =0,00x0,98+0,99x0,02=0,0296 5.4 O(S) = P(A)BAT) = P(A) O(B) O(T)=0,68 P(F)=P(ANBITT)+P(ANBOT)+P(ANBOT) = P(A)P(B)P(T) +P(A)P(B)P(T)+P(A)P(B)P(T)=0,00894 P(M)=1-0,68-0,00894=0,311

EXO 6 Soit fi fin de la paison di : de but de la reme paison ona P(Va)=91; P(Mds)=9,7 et P(Rds)=0,2 8(Mg/Vd1)=95 6.1 P(RF1)=P(RF1 N/d1)+P(RF1 NMd1)+P(R61 NRd1) = PCRFa/Vdy)P(Vd,)+P(RFa/Md1)P(Md1+ P(Rfs/Rd1)P(Rd1) = optxopt = 94x0,7+ 92x92=0,33 6.2 P(VA)=1-P(VG) P(Vg)= P(Vg1/Vd1) P(Vd1)+P(VG1/NSA1) P(Md1) + P(U6/Rd1) P(Rd1) =0,4x0/1+0/3x9/7+0/1x0,2=0,27 Duc P(V6)=0,73 P(M6)=1-0,33-0,27=0,4

((Vd2)=0,27; P(Md2)=0,4; P(Rd2)=0,33 P(Rb2)= P(Rb2/Vd2) P(Vd2) + P(Rb2/Md2) P(Md2) + P(R62/Rd2) P(Rd2)  $= 0,1\times0,27 + 0,4\times0,4+0,2\times0,33 = 0,253$ P( P82) = 1-P( V62) P(VB2) = P(VB2/Vd2) P(Vd2) + P(Vg2/Md2) & (Md2) + P(Vbr/Rd2) P(Rdr) = 9,4x9,2++0,3x9,4+0,1x0,33=9,261 =DP(V62) = 0,739 P(MB2)=1-0,253-0,261-0,486 6. (P(Vd3) = 0,261; P(Md3) = 0,48; P(Rd3)=0,253 P(VB3)? P(MB3)? P(RB3)?