

PLBIA) = PLBAA) 6. PLAIB) = PLANB) P (B)

PLAMB) = PCBMA)

P(A) > P(B) because event B is more specific and narrower compared to the event A. Therefore PCAIB is larger

So. A. 0.05

b. 0.05 10.07 20.12

C. short-sleeved shirt = 0.04 +0.02 +0.05 +0.08 +0.07 +0.12 +0.03 +0.07 +0.08 = 0.36

long - sleeved shirt = 1- 0.56 = 0.44

1. Medium: 0.00 + 0.07 + 0.12 + 0.14 0.0x +0.07 = 0.47 print : 0.02 + 0.07 + 0.07 + 0.02 + 0.05 + 0.02 = 0.25

e. PLMISSAPI) = PCMASSAPI) PCSSAPI) = 0.533 I. P (SSIMAPI) = PCSSAMAPI) 0.08 PCMAPIS

= 0-444 PELSIMAPIS = 0.1 = 0.356

PLAUBIC) = PLAIC) + PLBIC) - PLAMBIC) P(AVBIC) = P((AUB)AC) PCC = PCCA+AC)V(BAC) PCC) = PCANC) + PCBNC) - PCCANC) NCBNC))

= PCAIC) + PCBIC) - PCAMBIC) 63. a. P(A) = 0.75 P(A') = 1-0.75 = 0.25 P(BIA) = 0.9 P(B'IA) = 1- P(BA) = 0.1 P(BIA') = 0.8 P(B' 1A') = 1- P(B|A') = 0.2 P(CIANB) = 0.8

P(C'IANB) =0.2 P(C* /A AB') = 0.6 P(C'|AAB') = 0.4 P(C1A'AB)=0.7 P(C'1A' AB) = 0.3

PCC1A'AB') -0.3 PC C'IA'AB') = 0.7 P(BAA) = F(BIA) . P(A) = 0.9 x 0.75 = 0.675 PECIANB) = PEANBAL) P(ANIS)

PLAMBAL) = PLCHAB) . PLAMB) = 0.8.0.675 = 0.54

c. PLBAC)= PCBACAA) + PCBACAA') = 0.51 + 0.8. 0.7. 0.25

= 0.68 d. PCC) = PCAMBAC) + PCAMBAC) + PCAMB'AC) + PCAMB'AC) = 0.54 + 0.14 + 0.75.0.1.0.6 + 0.25.0.2.0.3 = 0.51 +0.14 + 0.045 + 0.015 -0.74

e. PCAIBAL) = PCAABAC) PCBACJ = 0.54 0.68 = 0.7941

