Probability & Statistics 192-1196 To: Mubashir Qayyum Section 4A Assignment # 3 Q#1 P(A) = 0.4 P(A') = 0.6 p(B) = 0.5 p(B') = 0.5 p(C) = 0.8let d' be the probability of The system gets damaged. p(d) = p(by one virus) + P(by two virus)+ P(by three virus) p(d) = p(ABE') + p(ABC) + p(ABC)+ p(ABC) + p(ABC) + p(ABC) + P(ABC) 0.4x 0.5 x 0.8 + 0.6x 0.5 x 0.8 + 0.6x 0.5 x 0.2 + 0.4 x 0.5 x 0.8 + 0.4 x 0.5 x 0.2 + 0.6 x 0.5 x 0.2 + 0.4 x0.5 x 0.2 p(d) = 0.46 + 0.26 + 0.04

Q#2 P(B,) = 0.2 P(B2) = 0.3 P(B, 88 B2) = 0.2 x 0.3 = (0.06 Ans) P(C|P) = 0.9 P(CIP) = 1/4 0.25 x 0.25 X = 0.7375 p(pnc) = 0.25x0.25 0.7375 p(c) 08 Ans

Scanned with CamScanr

