* precood vibilarbute Soi Parth 13th mondunals Rai Parthish mandumula. Studentid: - 1002022847 Assignment problems from chapter-2 Bear Carolina given, Problem (with mother board - Pd m B 9 = 40%. Amblems with hardding - PaHDY-301. = 0.3. moblem with both MB and HD = PVMBOHDY CONTRAMBUHDY SPAMBY + PAHDY P - PdmBnHD) i according to Probability of a union. Pd MB0HD4 20.4+0,3-0.15 0000 00 1000001500559 the probability that a 10-year old computer Shill has fully functioning is 1-0:55 Knows & Aug the fortes and in Knows fortun but not c Employee with c/c++=+01, = 0. 0 = pdcy Employee with fortan = 60%. 20.6 = Pdfy Employee with both Pd (nf 4: 50%, =0.5 does not known fortant. Pdf4=0.6 1) water Paty si 9, want sousmon to be and IPart = 17 Pd fy is complement rule. Pd F4 = 1-0.6 Mur Lang dibas : 1201409 Employee does not known fortan : 0.4 84 CLER 2 0 0 0 8 8 3 3 3 B

Studentid: 1002022847 Sai Parthish mandumula Sai Parthich mas humila. 8 tuntone 10: - 1002022843 (b) does not known Fortain and does not know of CH. : Complement PdFnEY= 1- (PdFUCY Abb (13-) 17 Pd Fully Wom atim) moldered · => 1- (PdF b+ Pd (y- Pdfnc) 1 =) + 4 (4006) + (012) = 015) in amaldans with but me (18,040 1 Came) does not know forten and does not know c/14 to utilidador of pathyano Knows c/c++ but not fortan 11 19 Pacs = 0.7 , pd Focy = 0.5. proposed Fys apd youpd Forty day and 3'0 -1 21 photo of the ois F. 0, 20 w 11112 Knows c/c++ but not fortan = 0.2 /1. knows fortan but not c/c++. 69 PdE4 = 0066, PdEnsysposisal 11 1) Paffley = Paffy - Paffore yalous Kas. The probion of programms knows fortan but not c/c++++ or hand @ If Comeone knows fortan, when is the probability that he/she knows c/c++. Pacney conditional rule.

pro : motrod amons/Pdofit cato envalue?

Pd (1F4 = 0.5 - 0.8333333

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(4) If someone knows elett, what is the probability that we she knows fortan too. the probability for the Se PdFICY = PdFnly - 0.5 The Fronchille PACY word Kery 10.0.0.000 0.71428571 combability in the shuttle to be launthed on Hight armived on good weather condition = 80%. flight arrived on bad weather condition: 301. JPF02P 0 PFBTY = 0.30. Tomorrow chance of good weather is = 60 1. 2020 Pda. 10 5 016 Pda.wy+pdB.wy=1 " · Cr · W = good weather, B. W = Bat weather, P 0 006+ Pd B. wy:1 1010 1 1000 Pd Billy 31-016 , DU 014 , TV Then the probability of flight-that is arrived on time is, PdTy=
Pdaty + PdBTy Plant * Pda. wy t Pd Bir y * PdB. wy 018 + 016 + 013 + 014 W => 160014841011Lba (0P.01 (3P.0016P.0) = The probability that the flight will arrive 601. good weather it = 0.6 11261 0 = The probability their atteast one of they special in stragger grow of Ding sembours

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Soil Parthish mandumula.

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The probability for the Second hey be PdB5

The probability for the Hund key be PdB5

pdcy=0.02.

probability for the shuttle to be launched on time:

(0.99) * (0.98) * (0.98) (0.98)

The probability for the Shuttle to be launched on time's 0.4508.

2.7 Probability for module 1 to work properly is

Probability for module 2 to work properly is

Probability for module 3 to work properly is

moduler fails to work Droperty ispday pdBy pdiy

p(0.96)(0.95)(0.90)

atteant one of the modules fails =

= 6.1792

The probability that atleast one of these modules fail to work properly is 01792

Studentid: 10000 22893 Stadentid: 1002022847 cal Parthich rapid lunchin Bai Parthish mandumula. 2.16 Probability of virus A damages the Rystem 1 OP (A4 20 0.4. Probability of virus B domages the Rystem is Probability of reinus e damages the Rystem is Probability that System get damage is. for a independent event & A and b you have elo PLANBDE, PLANDPLB) PLAUBUL) = PLA) + PLB) + PCC) ODICEPELA -PEANBIL PLANCION P(BNI) +P(ANBNI) 2000 (SIP (ANB) = P(A) P(B) = (0.4) (0.5) = 0.2 P (Anc) = P (A). P(C) = (0.4) (0.2) = 0.08 PP(Bh () ~ P(B):P(c)= (0.5) (0.2) = 0.1 Substituting in the formula: (0.2) - (0.1) 000 -0008) - (0.1) + (10.4) (0.5) (0.2) = P = 0 (0 00) - (01) + (01) + ((111)-60-2)-(0.08)-(0.1) I mark wou'th both, +U(00040) wall The probability that Cystem may ger damaged - 0:76. 2115) Probability of first block having error is Probability of Second block having error is pasy = 6.3. The probability that there is an error in both blocks are.

Studentid: 1002022847 Stanfertid: 1000001 843 Sai Parthish Mandumula Soil for rish worthward PLAUB)=PLA)AP(B) Pdfnsy: Pdfy. Pdsy = (0.21)(0.3) = 0:3 +0:2 - 0:06 of 40.08=10000 la PAFIS9 = 0.06/0 44 0 0. 13636364 Parts received from the Ruppiler x is = 240/0 => 0.24 Parts received from the Ruppiler X 13: 36%.
Parts received from the Ruppiler X 13: 40% 0.4. défective parts from × 1, 5%:006 defertive houts from y 10 10% - 0.10. defertive parts from x is 67. = 0.06.
Pdpy = 0.24, pdyy=0.36 P124=0.40 Pd Dfx 1 = 1005 (pd 1944 = 0.10, px 1924 2006 PdDpy pany pdny pdny updy JPd Dfy y - 6 (6+242(0°05) + (0°36)(0.10) (A'0) + (10) + (0·4) (0·06 1+(10) - 5000 (2 + 0.086 + 0.024 1.0) - (00.020092(11) Mow, probability that it was from zp12/10/01/10/01/10/01/19 Pdzy v pd Dby / p (Dby) 0.333 The probability that this part was received mon supplier 2 1 0.333. A Widodor The probability that there is

Studentid: 1002022 R47.
Baiparthish Mandum

Plant part subjected to electronic inspection - 201/ Probability with nodefects = 0.95. Probability not inspected electronically = 0.7. Not subjected to inspection = P(I) = 1 => (0·2)+6P(I)=1 => Probability neith nodefett: 0.95

P(N.D/I) = 0.95. => P(D/I)=005 Probability weith inspected = 0 P(NID /I)

P(NID /I) + P(NID /I)= 1 0.95+ PY N.D (14 = 1 1-0.95=PdN.D' 0005 an electronic inspection. is P(2) · P(D/I) + P(I) · P(D/I) · Pldefertine paut) - (0.2) · (0.05) 10.2)x(0.05)+(0.8)x(0.3) 0.01 The probability that this part went through an electronic inspection is 0.04