Muneeb	Lone
231-26	23
DS-B	

ASSIGNMENT 2 P(A') = 1 - 0.4 = 0.6= 1 - P(AUB) = P(A OB) Not together - Total - togethe 0's together= 4! ×1 ×1=24

Date: \_\_\_\_L\_\_\_

Date:I
(d) P(G'ONT') = P((GUT))
$=1-P(G\cup T)$
$= 1 - \left[ P(G) + P(T) - P(G \cap T) \right]$
= 1 - 0.7
P(G' nT') = 0.3
(e) P(TIG) = P(T n G) = 0.2 = 0.333
P(G) 0.6
(f) P(G' T') = P(G' nT') = 1-P(G UT)
P(T') 1-P(T)
= 0.3 = 0.43
1-0.3 0.7
@ Qu: Red = 2, Green=3, Black=4
Ja. Red = 2, green=3, Diacie=4
3 drawn
3 drawn
3 drawn (a) Diff color: 2C1 × 3C1 × 4C1 = 0-285 2
3 drawn
3 drawn  (a) Diff color: $2C1 \times {}^{3}C_{1} \times {}^{4}C_{1} = \frac{0.285}{7}$ (b) 2 same and :-
3 drawn  (a) Diff color: 2C1 × 3C1 × 4C1 = 0-285 2  9C3  7  (b) 2 same and:-  1 different
3 drawn  (a) Diff color: 2C1 × 3C1 × 4C1 = 0.285 2  9C3  7  (b) 2 same and:-  1 different
3 drawn  (a) Diff color: $2C1 \times {}^{3}C_{1} \times {}^{4}C_{1} = 0.285$ 2  9C3  7  (b) 2 same and: -  1 different  (a) Case 1: $(2R+1G) \Rightarrow {}^{2}C_{2} \times {}^{3}C_{1} = 3$ Prob= $5S = 5S$
3 drawn  (a) Diff color: $2C1 \times {}^{3}C_{1} \times {}^{4}C_{1} = 0.285 \times 2$ 9C3  7  (b) 2 same and:-  1 different  (ase 1: $(2R + 1G) \Rightarrow {}^{2}C_{2} \times {}^{3}C_{1} = 3$ Prob= 55 = 55  (ase 2: $(2R, 1B) \Rightarrow {}^{2}C_{2} \times {}^{4}C_{1} = 4$
3 drawn  (a) Diff color: $2C1 \times {}^{3}C_{1} \times {}^{4}C_{1} = 0.285$ 2  9C3  7  (b) 2 same and: -  1 different  (ase 1: $(2R + 1G) \Rightarrow {}^{2}C_{2} \times {}^{3}C_{1} = 3$ Prob= $55 = 55$ Case 2: $(2R, 1B) \Rightarrow {}^{2}C_{2} \times {}^{4}C_{1} = 4$ Case 3: $(2G, 1BR) \Rightarrow {}^{3}C_{2} \times {}^{2}C_{1} = 6$ = 0.654
3 drawn  (a) Diff color: $2C1 \times {}^{3}C_{4} \times {}^{4}C_{1} = 0.285.2$ 9C3  7  (b) 2 same and: -  1 different  (ase 1: $(2R + 1G) \Rightarrow {}^{2}C_{2} \times {}^{3}C_{1} = 3$ Prob= $\frac{55}{9C_{3}} = \frac{55}{9C_{3}}$ Case 2: $(2R, 1B) \Rightarrow {}^{2}C_{2} \times {}^{4}C_{1} = 4$ Case 3: $(2G, 1BR) \Rightarrow {}^{3}C_{2} \times {}^{4}C_{1} = 6$ Case 4: $(2G, 1B) \Rightarrow {}^{3}C_{2} \times {}^{4}C_{1} = 12$
3 drawn  (a) Diff color: $2C1 \times {}^{3}C_{1} \times {}^{4}C_{1} = 0.285$ 2  9C3  7  (b) 2 same and: -  1 different  (ase 1: $(2R + 1G) \Rightarrow {}^{2}C_{2} \times {}^{3}C_{1} = 3$ Prob= $55 = 55$ Case 2: $(2R, 1B) \Rightarrow {}^{2}C_{2} \times {}^{4}C_{1} = 4$ Case 3: $(2G, 1BR) \Rightarrow {}^{3}C_{2} \times {}^{2}C_{1} = 6$ = 0.654

: 3 C3 = 1 Case 2: 3G . 4C3=4 Probability = 5 = 0.059 Q5: (A) P(A ~ B5) = P(A). P(B5) P(A)=0.7, P(BUA) =0.9, P(ADB)=0.3 (a) P(A OBC) = P(A). P(BC) (P(A))(1-P(B)) P(AnB) = P(A).P(B) 0.3 = 0.7 .P(B) P(B)= 0.428 P(ANBC) = (P(A))(1-P(B)) = (0.7)(1-0.428) = 0.7-0.57 = 0.4004 = P(B) (1-P(A)) (b) P(B nAc) = 042. (1-0.7) =(0.42)(03) = 0.126 (c) P(AC n BC) = 1 - P(A U B) = 1 - 0.9 = 0.1

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P(AC U B)= P(AC) + P(B) - P(AC OB)
                = 0.3 + 0.42 -0.126.
 (e) P(AC U BC) = P(AC) + P(BC) - P(AC OBC)
                   = 0.3 + 0.57 -0.1
                        P(M1C)=0.6
  06: P(M1) = 0.4
                        P(M2 C) = 0.5
       P(M2)= 0.5
                        P(M3C)= 0.4
       P(M3) = 0.6
 (a) All missiles hit the larget: 0.4x0.5x0.6=0.12
                             1 - P(Alone hit
                       hits:
                           = 1 - (P(M) x P(M2) x P (M3))
-
                           = 1 - - 6(0.6 x 0.5 x 0.4)
<del>-</del>
                            = 1-0.12
-
                            = 0.88
  (C) At most one: (AcxBcxCc)+(AxBcxCc)+(AcxBxCc)
                   + (ACXBCX.C)
                   =(0.12)+(0.4 x0.5 x0.4)+(0.6 x0.5 x 0.4)+
                    (0.6 x 6.5 x 0.6)
                   = 0.12 + 0.08 +0.12 +0.18
```

= P(A x Bc x Cc) + P(Ac x BxCc) + P(Ac x Bcxc) = (0.6 x 0.5 x 0.4)+ (0.6 x 0:5 x 0.4)+ (0.6 x 0.5 x 0.6) 0.08 + 0.12 + 0.18 = 0.38 (e) Exactly too missiles: P(A × B × C°) + P(A × B × C) + P(A × B × C) = (0.4 x 0.5 x 0.4) + (0.4 x 0.5 x 0.6)+ (0.6x05) = 0.08 + 0.12 = + 0.18 = 0.38 Q7: P(C)= 0.44 C: Cavi Personal Cleaned P(F)=0.24 F: Cavity Filled P(E)=0.21 E: Tooth extracted P(C )= 0.08 P(CAE) =0.11 P(FOE)= 0.07 P(CDEDF)=0.03 P(Cn F U E)=P(C)+P(F)+P(E)-(P(Cn E)+P(Cn E) + P(FNE))+ P(CNENE) = 0.44 + 0.24 + 0.21 - 0.08 - 0.11 - 0.07 +0.03

```
Date:
                              P(HC) = 0.79
  Q8: P(H)= 0.21
                              P(N°)=0.72
       P(W)= 0.28
                              P(40 UWC): 0.85
       P(H n W) = 0.15
   = (P(H) x P(WC))+ (P(HC) x P(W))+ (P(H) x P(W))
   = (0.21 × 0.72) + (0.79 × 0.28) + (0.21 ×
     0.4312
9
                = P(HOWC)
                = 0.21 -015
                           P(L B) = 0.55
   Qq: P(b) = 0.4
                           P(L T) = 0.7
       P(T) = 0.35
                           P(LIC)=x
       P(C)=0.25
  (a) 2 = 7
                  P(Lnc)
  P(LIC)= 1-P(LIB)(P(B))]+[1-P(LIT)(P(T))]+[1-P(LIC)(P(C))]
   0.48=0.45 x0.4)=(0.3 x0.35)+(1-x)(0.25)
0.48=0.18+0.105+0.25-0.25x > x=0.22
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	0
[2] 전환 10 전 1	5
Date:	
(b) P(T/L) = P(LIT) P(T)	0
P(L) (911)	
P(L)=0.5200 ( WO 24) 9	
P(T/L)=0.7 = 0.35	
0.52	
P(T/L)= 0.245 = 0.4711	9
10 ((MO)53 H)4 = ((M)4 = (1)4)4) = ((M)4 = M)4) =	0
Q10: P(J)= 0.2 J. J. J. L.	
P(T) = 0.6 T: Tom	2
P(E)= O.K F: Jeff	2
P(P) = 0:05 P: Pat	æ
	0
P(FIJ)= 0.005 3P(FIT)=0.01	0
P(F E)=0.011, P(F P)=0.005	C
8880.41 = 140 - 12.5 = 1	0
P(J F)=?	0
(39: 7/16) = 0.4 P(L (8) = 0.55 P(L (1) = 0.48)	0
P(F)=(0.005 x0.2)+(0.01 x0.6)+(0.0111 x0.15)+(0.005 x0.05)	C
P(F)=0.0089\$5	9
P(JF)= P(FJ).PG) = 0.00 (x0.2 = 0.1122	CI
P(F) 0.008415	C
	C
	U
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