SETS Page No. (1 Solution of WORKSEET NO: 3 Date: exposed to Chemical ( --- chemical ( gives: n/U/= 200 n(c1)=120, n(c1)=50, n(c10(2)=30  $n(C_1 \cap C_2') = n(C_1) - n(C_1 \cap C_2)$ = 120 - 30 = 90 ANS n(ana)= n(a)-n(ana) n(c,u(2)= n(c,) +n(c,) -n(c,n(2) = 120+ 50-30= 140 n(cinq')= n(u)-n(c,u(1) = 200-120- 60 2 A -> set of Shidents deinking limica

B -> 11 " Olen King Miscenda 91um n(U)=700 n(A)=180, n(B)=275, n(AnB)=95 To find M(A'NB') = n(U) - n (AUB) = n(U) - [n(A) +n(B) - n(ADB)) - 400 - (180 + 275 - 95) = 340 Any

# S-3 Solutions

Page No. (2)
Date:

Date:	
WS: 3 + A -> Set of Shidents taking Chemistry C	lass
B-1 " " Physics	11
91cm n(A)=40	
n(0) = 60	
) since two classes meet as the same time	2
who are taking both Classes at the same	
who are taking both classes at the same	hme
= n(APB)=0	
·n/AUB) = n(A) +n(B) -0	
= 40+60	
= loo Ams	
classes at different time	
20 Shidents ale Common	
= n(AnB) = 20	
n/AUB)= 40+60 -20	
= 80 AMS	
-x-	
# n(11)=25	Pg
4 + n(U)=25	
(M)=15 = a+b+e+d	
(P) = 12 = b+(+e+f	
n(c) = 11 = d + e + f + g	
(()=   = 41(1+1)	
$\frac{1(MAC)=5}{2}=\frac{1}{2}$	
MITTE	
n(pnc)=4 = eff	
71 (	

n(MAPAC)= 3

# S-3 solutions

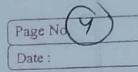
Page No. 3

e=3, f=1, b=6, d=2, g=5, c=2(i) only chemisty = 9 = 5 (2) physics and chemistry but not Mathy = f = 1 (3) only one of the subject = 9+(+9= 11 (4 latteast one of the three subject = a+b+c+d+f+e + 3 (3) none of the subject = 25-23 = 2 (6) exactly two = b+d+f = 9 ON5 + A + Set of families

B-1 " " buy newspapes A grun n(U) = 10000 n (A) = 40% of 10000 = 4000 = a+b+e+d n(B) = 20%, y 10000 = 2000 = b+c+e+f n(c)= 1000 = d+e+f+g n(Ang) = 500 = b+e n(Bnc) = 300 = e+f n(Anc) = 400 = d+en(ANBAC)= 200 = C

proceed

#### S-3 solutions



ON6 + 91un n(U)= 100 Explin only a = 18 Bylunnot hendi = a+d= 23 n(Ens): = d+e = 8 n(E): a+b+e+d-26 NS)= d+ l+f+9= 48 n(SnH)= e+f=8 nolarguge = none = 24 TMP = 24 = 100 - (a+b+c+d+f+g)

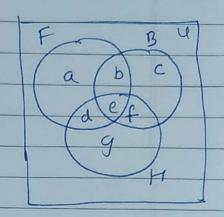
punt = a+b+c+d+e+f+g= 76 a=18, d=5, e=3, b=0 f = 5, g = 35, q = 10(1) n(H)= B+C+e+f = 49 43 (2) n(ENH)= b+e = 3 AM -x-On 7 + n(U)= 500 n(F)= 285 = a+b+e+d n(H)= 195 = d+e+f+9 n(B)=115=b+c+e+f

n(FnB)=45 = b+e

n(FnH)=70 = d+e

n(HnB)=50 = P+f

n (none of the game) = 50



Imp. pant

n(none) = n(u) - n (afleastone)

=1 50= 500 - n (affect one)

= n(affectione) = 450

= a+b+c+d+e+f+g= 450

JAP. n(FUBUH)= n(F) +n(B) +n(H)-n(FOB)-n(BOH)

-n(FnH) + n(FnBnH)

450 = 285 + 195 + 115 - 45 - 50 - 70 + n(FABAH)

 $\Rightarrow n(FNROH) = 20$   $\Rightarrow (e=20)$ 

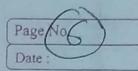
? f=30, d=50, b=25, c= 40 9=65, a=190

(1) n (FABAC) = 20

(2) exactly one = at c+g = 190+195

An

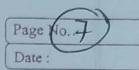
## S-3 Solutions



048 + n(TUC)- 50 n(Tnc')= 14 n(T)= 30 (i) he know n(Tnc') = n(T) - n(Tnc)14= 30 - m(Thc) = n(Tnc) = 16 Am (2) we know n(TUC) = n(T) + n(C) - n(TAC)=> 50 = 30 +n(c) - 16 = n(c) = 36 n(CATI) = n(C) - n(CAT) = 36 - 16= 20 Any 049 + n(U)=500 n(A)= 400 n(B)= 200 n(Ans)= 50 M(AUB) = 400 + 200 -50 = 550 But n(U)= 500 # here n(AUB) >n(U) of pohible

i data is incorrect

## S-3 Solutions



1	Date :	
(	$\frac{0 \times 10}{n(B)} + \frac{n(A)}{n(B)} = 3$	
	- Minimum number of elements of n(AUR) = 3	
-	Maximu " " $n(AMB) = 9$	
	Maximum 1. 1. n(ADB)= 3	
	when ACB	
	Then AnB= &	
	when A CB	