

CLASS - 5-4 Topic: 56-75 Date::.... Page No. : (..2....).... (20) 7 ACB and BCA then A=B Idig It XEA lut JEB HEB YEA

then ACB-(1) BCB-(2) from (1) & (2) A=B XCA(X) (21) XCA MEAW the XE P(A) (21) 7 X & P(A) then X CA (23) Association prop. AU(BUC) = (AUB)UC An (BMC) = (AMB) AC THEN AUB = B (2v) Quit.

CLASSTIME"

CLASS 5-4 Topic: SETS Date Page No. (3) QUESTION: 1 Show that AUB = ADB implies A=B grus AUB= ANB I A=B let XEA => XE AUB => HE ANB --- (914 => YEA and YEB > ACB -- (1) lut yEB > YEAUB => YE ANB --- (914) a yEA and yEB 7 BCA --- 12 Rew (1) & (2) A=B prond Property ON 2 - Show frat XEP(A) P(AnB) = P(A) nP(B) XCA Sol Let XE P(Ang) > XCANB A XCA and XCB > X ∈ P(A) ord X ∈ P(B) > XE P(A) \ P(B)

CLASS S-Y Page No. : . (4)..... Date. : Topic: SETS WYEPA) nP(B) > Y E P(A) and Y EP(B) = YCA and YCB = YC(AAB) --- P(A) NP(B) CP(ADB) - (2) F- (18(2) P/A/B) = P/A/AP(B) ONUZ+ Assume that P(A) = P(B), Show that A=B Il is any as bitrary element Let MEA XCA = X CP(A) = X E P(B) --- (9 mb) = XCB = NEB = ACB---(7) W YEB a yCB = YEP(B) => Y + P(A) --- (91m) = YCA a yEA BCA -(1) From (1) (2) (2) A=B CLASSTIME"

CLASS S-Y DAVIN + Show that PlAUB) + PlA) UP(B) Sd) W- A= {1,24 B= {2,3 } AUB= \$ 1,2,34 VP(A) = { 514, 424, 31,24, \$ 4 P(B)= { 524, 434, 2434, \$4 Plaus)= } { 114, 124, 134, 11,29, 12,34, 11,34, 11,34, \$ Rmy P(A) UP(B) = & K14, 624, 634, 41,24, 12,34, 4.4 Cleary Plaus) of PlA) upla) Ans ONS + show that of [A CB] then (C-B) C (C-A) ld NE (C-B) 5011 XE (CNB') => XEC and MEB!

=> XEC and MEB!

=> XEC and MEB! 47 ACB the one M&B the n#Ay = MEC and MEA! = YE (CNA!) => XE (C-A) → (C-B) < (C-A) (CLASSTIME)

Topic: CLASS 5-19 Date.: Page No.: (6...) On 6 + of AUB = AUC and ANB- ANC then snow that B=C Sols Inhay AUB = AUC > Bn(AUB) = Bn(AUC) => (BNA) U(BNB) = (BNA) U(BNC) - (AnB) UB = ANB) U(BNC) B = (ANB) V (BNC) - (1) Main Corridy AUB = AUC = cn(Aug) = cn(Aug) = CA(CNA) U(CNB) = ENA) U(CNC) = (Anc) v (Byc) = (Anc) v C = (Anc) U (BNC) = C = (Anis) v (Bnc) = c - 2) - 1 from 4 Fra (1) 2 (2) => (B=C) Pand