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         CMP 215
                                 BHU/20/04/05/0010
                                 COMPUTER SCIENCE
         Assignment
      2. Proc the followby

2. Su(SNT) = Sn(SUT) = S
        solom
        5 = {2,4,6,8,10}
        T = \{2, 3, 4, 5\}
           SnT= {2,4}
           SUT= {2,3,4,5,6,8,10}
           Sau(SnT)={2,4,6,8,10}
           Sn (SUT)={2,4,6,8,10}
                          Proved = Su(SnT) = Sn(SUT) = S
      b 5 CT if and only if SUT = T
        5 = {1, 2, 3}
        V = \{1, 2, 3, 4, 5, 6\}
           5 \subseteq T = \{1, 2, 3\}
           SUT = \{1, 2, 3, 4, 5, 6\}
                         Proved = SUT = T
c 14 RCT and SCT then RUSCT
                            RUS= {a, b, c, d}
       B= {a, b}
      5 = {c, d}
      T = {a, b, c, d, e, f}
         BCT={a, b}
                              Proved = RUSCT
         5 C T = { C, d}
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all RCS and RST the RCSnT
  m = {a, b}
  5 = {a, b, c}
  T = {a, b, c, d}
   RC9={a, b}
    RCT={a, b}
    5 n T = {a, b, c}
                   Proved = BCSNT
elf SCT then RUSCRUT and RUSCRUT
5 = {2, 3}
T = \{4, 2, 3\}
 R={1,2,3}
   S C T = {2, 3}
    hus={1,2,3}
    RUT = {1, 2, 3, 4}
    Rns = {2, 3}
    AnT = {2, 3}
                  Proved = RUS C RUT and RASCRAT
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If SUT # & then either S#8 or 718 5= {a, 6} T = { } SUT = {a, b} Proved = SUT + Ø S + Ø S.t T = Ø 9 1 5 NT = & then both S + D and T + D $S = \{1, 2, 3, 4\}$ $T = \{2, 4, 6, 8\}$ 5 n T = {2, 4} Proved = SnT + Ø and both S+0 and T+0 h S= T if and only if SUT = SNT 5 = {a, b, c} T = {a 6, b } SUT = {a, b, c} SnT = {a, b, c}

Proved = S = T and SUT = SNT