HOME TEST CLASS 9

I) Answer the following   10 x 2.5 = 25

1) 1ƒ A= {1, 2, 3, 4, 5, 7,9,11} find n(A)

2) A= {x: XEN 4 ≤ x ≤8} and B={4,5,6,7,8} equal sets?

3) find the number of subsets and the number of proper subsets of a set x = {a, b, c, x, y, z}

4) write down the power set of the following Sets

    (i) A = {a,b} (ii) B= { p,q,r,s }

5) A= {2,3} and C = { }   find (AnC)

6) Draw Venn diagram

    (i) A' ii) (AUB)'

7) Write Commutative Property of sets.

8) If A = {6, 7, 8, 9} and B = {8, 10, 12} find

9) n(A) = 30, n(B)=45, n(AUB) = 65 then Find n (AnB) and n (A-B)

(10) U= {1,2,3,4,5,6,7,8.240} = {1,3,5} B= {2,3,5,6} then find a) A' (ii) B'

II) Answer the following question   5x5=25

    1) verify An(BUC) = (AnB) U (AnC) use Venn diagrams

2) Verify A-(BUC) = (A-B) n (A-C)

3) if U= {0,1,2,3,4,5,6} A = {1,3,5 } B ={0,3,4,5} Then find (AUB)'= A'n B'

4) Verify (AnB) - A'U B' using Venn diagram.

5) Verify n(AUBUC) = n(A) + n(B) +n(c)-n(A n B) - n(BnC) - n(AnC) + n(AnBnc) if A={a,c,e,f,h} B={c,d,e,f} c={a, b,e,f}