Math 102 Practice Test 1-Sets

 $\{0,1,2,...,10\} = A$

set builder form: A = {x | 0 0 < x < 10 }, x ∈ Z}

{x:x is an integer less than 4) = B

 $B = \{-\infty, -3, -2, -1, 0, 1, 2, 3\}$

 $\{a,b,c,d,e,f,h,i\}=c$

subsets of (= 2 8 = 256

(a),(b),...,(i), \{a,b\},\{b,c\},...,\{h,i\}, \{a,b,c\},\{b,c,d\},...,\{e,f,h,i\}, \{a,b,c,d\},...,\{e,f,h,i\}, \{a,b,c,d\},...,\{e,f,y,h,i\}

a. $\{0,1,2,3,4,5,6,7\}$ =

 $\{\chi: 0 \leq \chi \leq \neq, \chi \in \mathbb{Z}\}$

OR

 $dx: \chi \leq 7, \chi \in \mathbb{Z} - \mathbb{Z}^{-}$

b. January, February, Murch, April, May & = E

F = { x: x ∈ Honth of the year coming before

June

U=d1,2,3,4,5,6,7,8,93

A= {2,4,6,8}

 $B = \{1, 3, 4, 5, 7\}$

 $(= \{7,8\}$

(0) ANB = { 4}

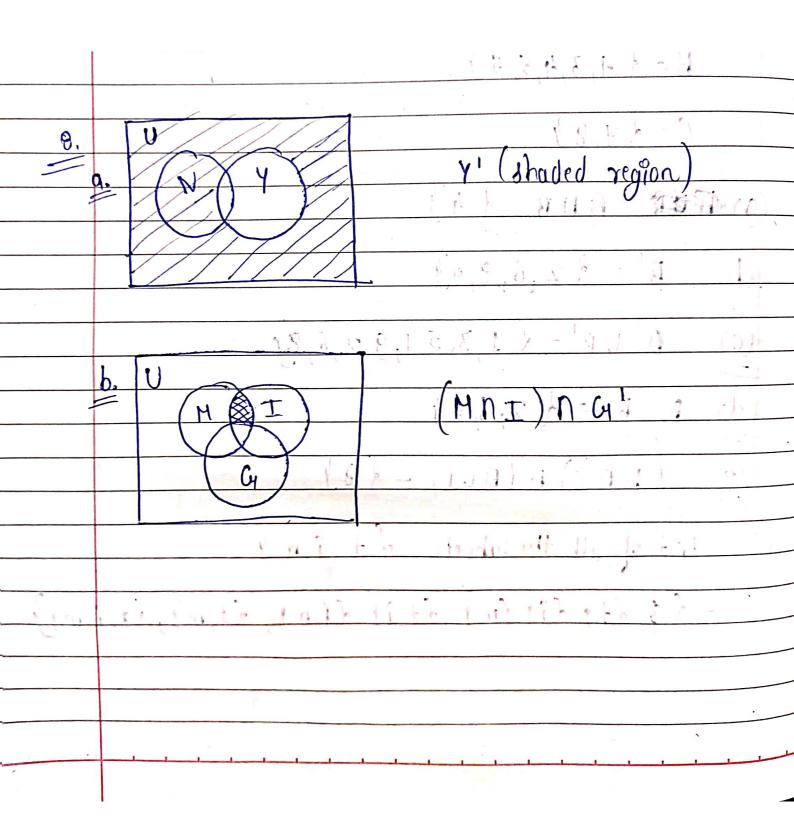
(b) $B' = \{2, 6, 8, 9\}$

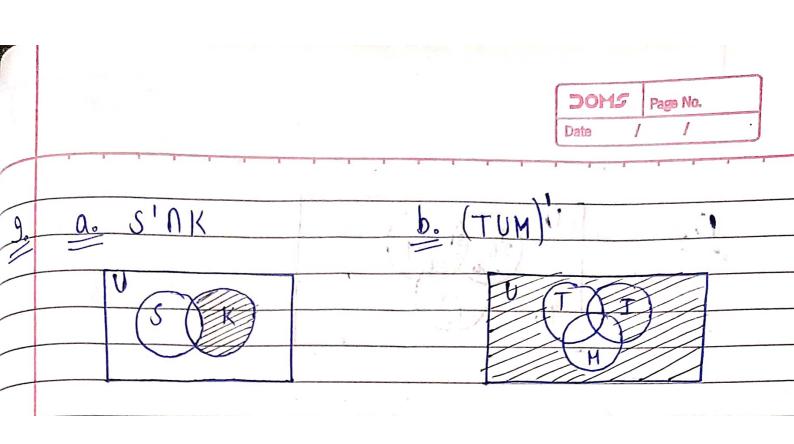
(c) $A' \cup B' = \{1, 3, 5, 7, 9, 2, 6, 8\}$

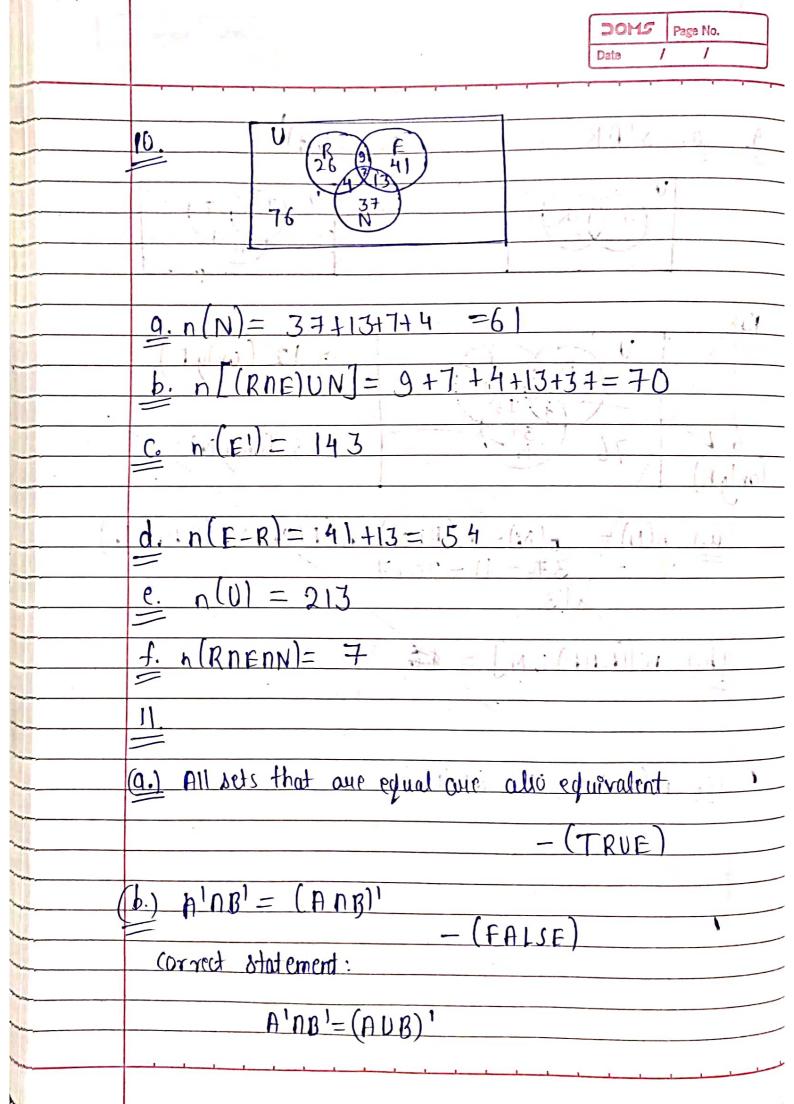
(d) A-BN=12,6,83

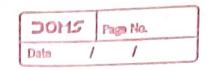
(e) (Anc)n(AUB) = {8}

6. Lest of all the subsets of d, i, m y









((a) set F = d(1,2,3) and set G = d(2,3,i), then $F \subset G$ -(FALSE)

correct statement

FISIGN = 1701111

(d.) U != { }

- (TRUE)

(e.) The number of proper subsets of a given set is one-less than the number of subsets for the same set.

- (TRUE)

2 h-1 (proper subsets)

 $(f_0) \qquad n(TUL) = n(T) + n(L)$

- (RUE) 9+ (TIL =)

Otherwise,

n(TUL) = n(T) + n(L) - n(TNL)

