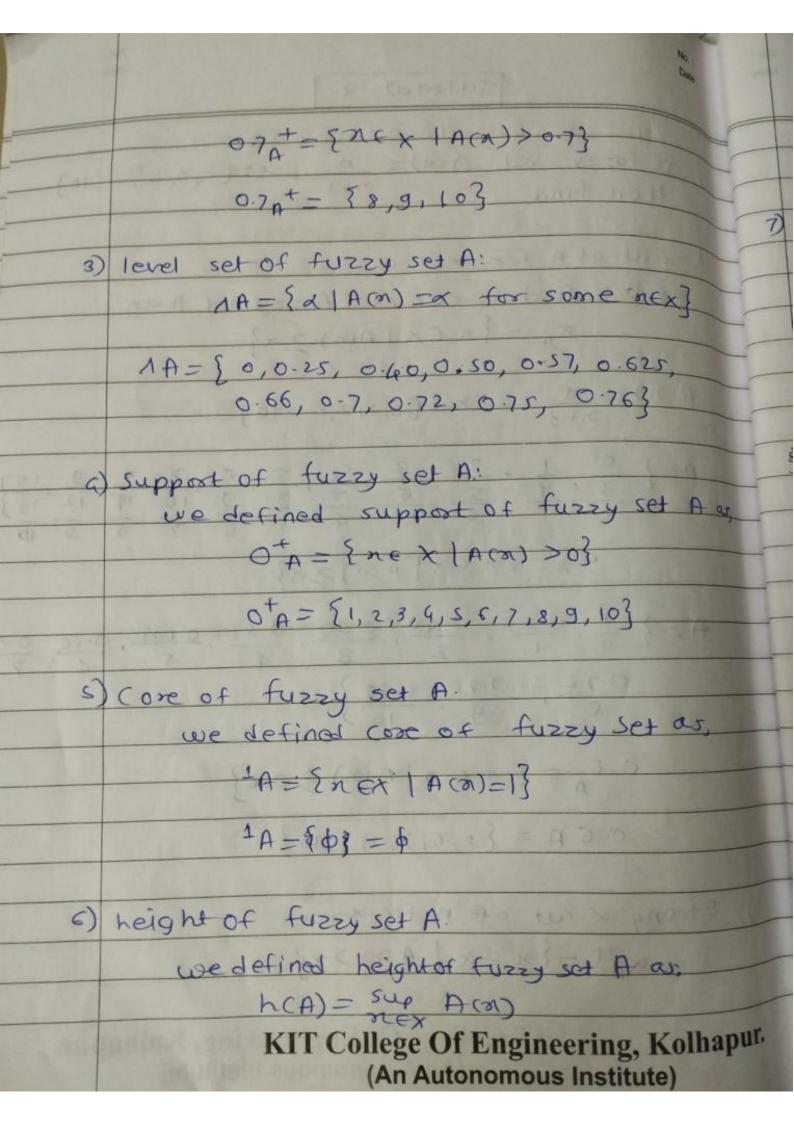
No: Date: Tutosiau 8 on (i) If fuzzy set $A(n) = x \times \{0,1/2,...10\}$ then find. 1) x-rut of A for x=0.6 we find a-cut of fuzzy set A as, XA = {n Ex | A(n) > x} $A(n) = \frac{N}{n+3} \times = \{0, 1/2, -10\}$ P= { 3, 4, 5, 6, 7, 8, 9, 10, 10, 12, 13} XA- En Ex | A (n) > a} A={ 0,0.25,0.60,0.50,0.51,0.64,0.7 0-72 0.75 2-76 0.6 = { x (x) A (x) > 0.6} 0.6 A = {5,6,7,3,9,10} Strong X-rut of A for x=0-7 111) Xx = {x Ex | A (m) >x}

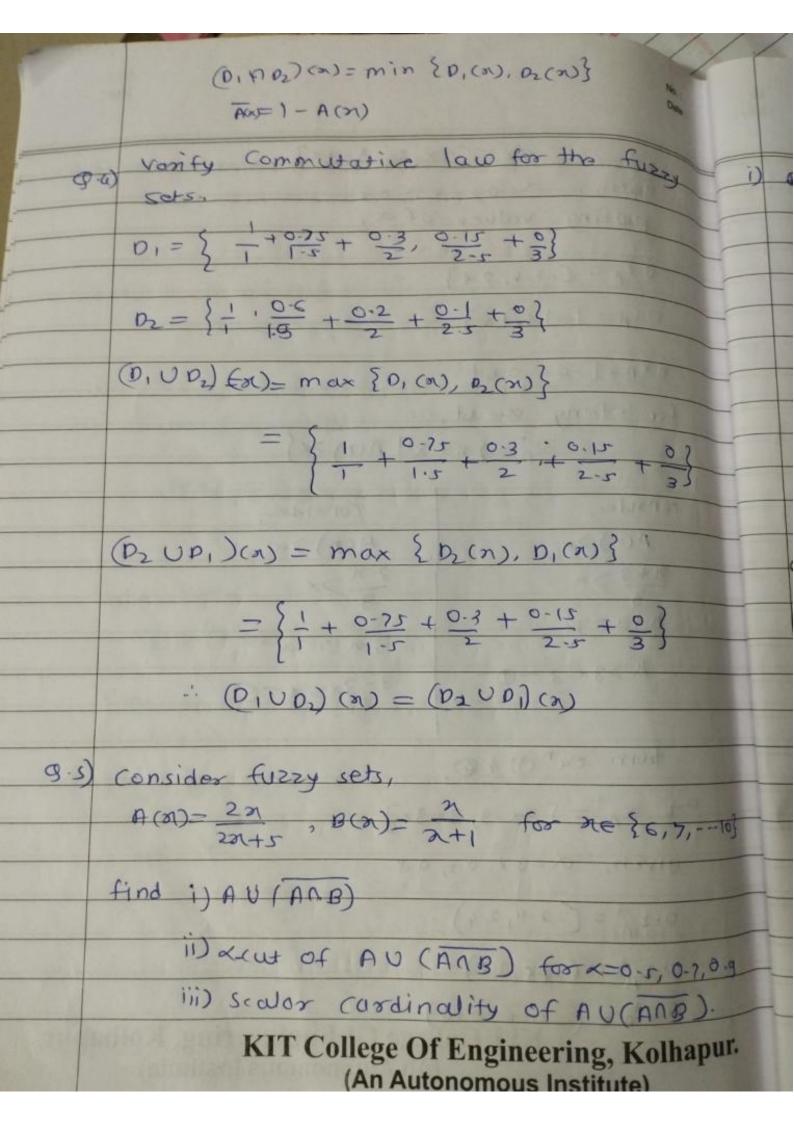


19) Relative coordinality of fuzzy set A.

HAH = 1A1 = 5.92

		No. Owla
fuzzy set A fo	+ and strong x-cut	OF _
where, 4 laz casa	(n+3 if -3< x <0	
A(M) =	3-x # 0< x 53	
	-	
Given fuzzy Set,	rau natitupo) A ta	
\ 3		
H(a) = 3-3	if 0 <x<3< th=""><th></th></x<3<>	
(0	othorwise	
we know that a	X-cut of fuzzy set. A.	
XA = { nex A(n)	2 x } 100 11000 1000	15 (0)
		TA TA
200 00	3-n 3 >x	
2+3 732	3-20,30	TOTAL
2 > 34-3-0	3-34>7-0	
	s villarises continu	1 10
	fuzzy set A for where, Given fuzzy set, $A(x) = \begin{cases} 2x \\ 3x \\ 3 \end{cases}$ $A(x) = \begin{cases} 2x \\ 3x \\ 3 \end{cases}$ Consider, $A(x) \ge x$ $\frac{x+3}{3} \ge x$	Given fuzzy Set, Given fuzzy Set, $A(\alpha) = \begin{cases} 2\pi & \text{if } -3 < n < 0 \\ 3 & \text{if } 0 < n < 3 \end{cases}$ $A(\alpha) = \begin{cases} 2\pi & \text{if } 0 < n < 3 \\ 3 & \text{if } 0 < n < 3 \end{cases}$ $A(\alpha) = \begin{cases} 2\pi & \text{if } 0 < n < 3 \\ 3 & \text{otherwise} \end{cases}$ Consider, $A(\alpha) \geq \alpha \qquad \qquad A(\alpha) $

	No.: Date:
	CON A LAST
given, and son	3 3 - 3 - 7
Puting values of	30)
Values of	Éa,
0.2 A = (-2.4, 2.4)	38 9 39 9 13 5 10
[54:54] =A2:0	
[51.91	NA 19161
for strong a-cut	
for strong a-cut.	408 1818 1818 1818 1818
~ = {xex	(A(n) >d)
consider,	Consid
A(n)>x	Consider, A(n) > x
71+3 > a	
	3-20 >0
71 +3 > 3x	3-x > 3x
1>32-3-0	
600000	3-30> N-0
1	
from eq n 3 4 0,	- calda years contract to the
0-12 XA+= [3x-3,3-	3~7
70 12 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4	The state of the s
given, d=0.2, 0.5,	0-8
: 0.2 = (-2.4,2.4)	- Carrier and
0.2 A - C 1 ()	TO THE LOS LINES OF
$0.2_{A} - (-15, 1.5)$	
0 et 6 0 6 0 6) on the Volhanur
KIT Coll	lege Of Engineering, Kolhapur.
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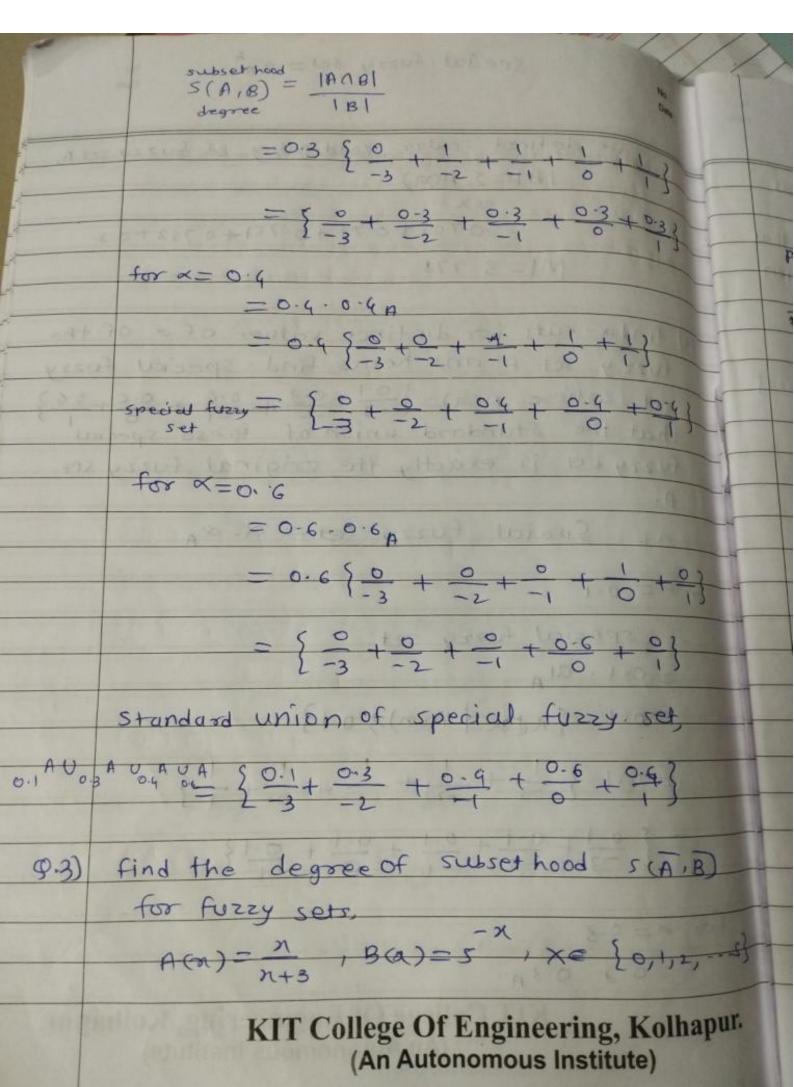
Date: ANB(N)= min {A(N), B(N)} A = { 12/17 14/19 16/21 18/13 129/21} = { 0-703 + 0-761 + 0-782 + 0.8 } B= { 6/7 , 7/8 3/9 3/10 10/113 = { 0.877 + 0.888 + 0.9 + 0.909} (A 1 B) (n) = min { A(n), B(n)} $= \left\{ 0.705 + 0.73 + 0.761 + 0.782 + 0.83 \right\}$ $(A \cap B) (a) = \begin{cases} 0.295 + 0.27 & 0.24 + 0.22 & 0.22 \\ 6 & 7 + 8 + 9 + 10 \end{cases}$ AUBU (AU(ARR))(X) = max {A(X), (ARB)(N)} (AU(AaB))(x)={0.705+0.73+0.761+0.782+0.3}

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ii) Xeur of AU (ANB) for x=0.5,0.7,0. we defined x-cut as, XA = { NEX | AM) > X} i) x=05 0.5 p= { x(x | (A(x) > 0.5} O.SA = {6,7,8,9,10} ii) a=0.6 0.6A= {x (x) A(x) > 0.6} 0.6A= { 6,7,8,9,10} 111) x = 0-7 0-FA={x(x) =0.7} 0-7- { 6,7,8,9,0} iv) x=0.9 0-9 A = {x (x | A(n) > 0-9} 0.9 = 0 iii) scalar coordinality of AU(ANB)

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A= {
$$\frac{degoee}{S(A_1B)}$$
 $\frac{degoee}{S(A_1B)}$ $\frac{$

$$B = \begin{cases} 0 + 0.2 + 0.04 + 0.008 + 0.006 + 0.0000 \\ 0 + 0.8 + 0.96 + 0.992 + 0.9984 + 0.99963 \\ 0 + 0.8 + 0.96 + 0.992 + 0.9984 + 0.99963 \\ 0 + 0.8 + 0.96 + 0.992 + 0.9984 + 0.99963 \\ 0 + 0.8 + 0.96 + 0.992 + 0.9984 + 0.99963 \\ 0 + 0.8 + 0.96 + 0.992 + 0.9984 + 0.99963 \\ 0 + 0.8 + 0.96 + 0.992 + 0.9984 + 0.99963 \\ 0 + 0.8 + 0.96 + 0.998 + 0.9984 + 0.99963 \\ 0 + 0.8 + 0.96 + 0.98 + 0.9984 + 0.99963 \\ 0 + 0.8 + 0.96 + 0.98 + 0.9984 + 0.99963 \\ 0 + 0.8 + 0.96 + 0.98 + 0.9984 + 0.99984 \\ 0 + 0.8 + 0.96 + 0.98 + 0.98 + 0.98 + 0.9984 \\ 0 + 0.8 + 0.98 + 0.98 + 0.98 + 0.98 + 0.98 + 0.9984 \\ 0 + 0.8 + 0.98 + 0.98 + 0.98 + 0.98 + 0.98 + 0.98 + 0.98 + 0.98 + 0.98 + 0.98 + 0.98 \\ 0 + 0.8 +$$

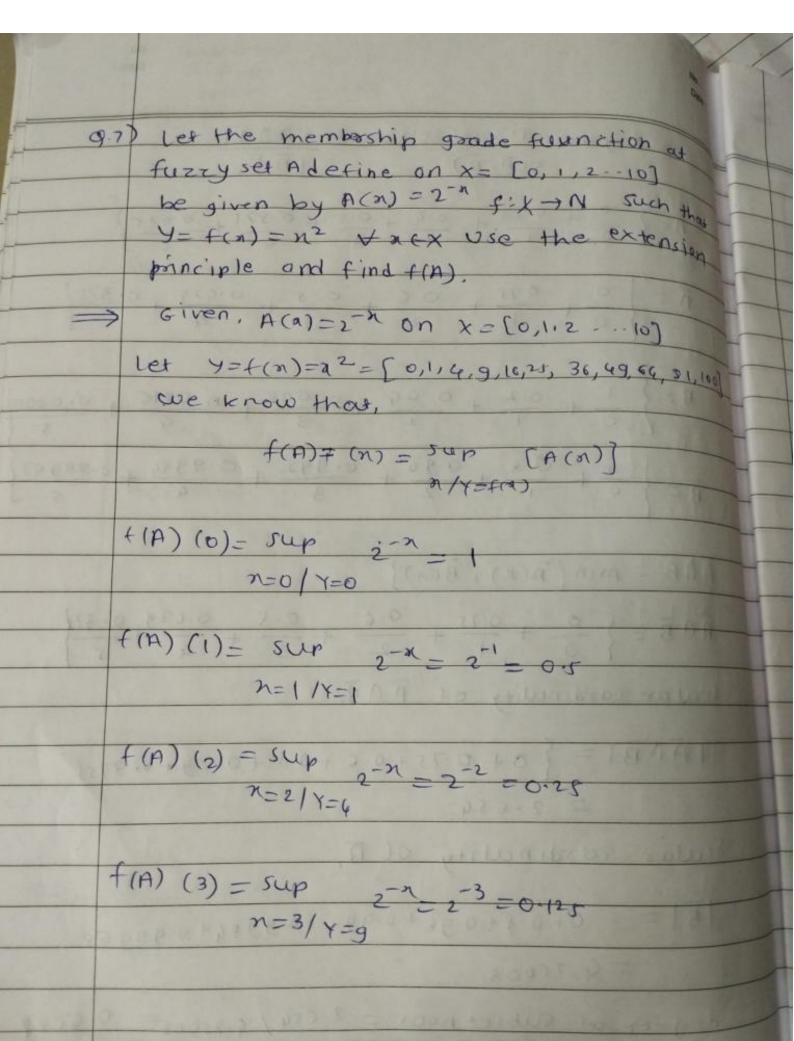
$$\widehat{A} \cap \widehat{B} = \left\{ \begin{array}{c}
0 \\
0
\end{array} + \frac{0.75}{1} + \frac{0.6}{2} + \frac{0.5}{3} + \frac{0.629}{4} + \frac{0.376}{5} \right\}$$

Scalar cardinality of AnB,

Scalor cardinality of B,

$$|B| = 0 + 0.8 + 0.96 + 0.992 + 0.9984 + 0.99968$$

$$= 4.75008$$



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