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21.0 D. V.	and the state of t	W - 48. 2
SCOR Hasign	ment 1	
il Explain Classical set Vs Fuz	zy set?	
Ans Classical set:	Samuel Commence	36 - 97-7398 34W YX
i) It is a conscrion of distinct	objects. For example	, a set of student's
passing grades.	harrie Carrier H	14 8'
i) Each individual entity in a set	is called a memb	er ox an element
of the set.	2011 J. 18 19 20 1 1 1 1	y y Essende d
ii) The classical set is defined in	such a way tho	t the universe
of discourse is splitted into	5 groups : weapon	us and non-members
Mence, in case of classical se		
iv) Let A be a given set. The	,	
to define a set A and is		9.1.7
$u_{A}(x) = \begin{cases} 1 & \text{if } x \in F \end{cases}$		
		and salgen vil vil
v) Operations on classical sets	intersection (U	
	interest and sense of the sense	-
The second second second	ditterence	8
Fuzzy set !	· Jun	er al juliotan i s
i) It is a set having degrees	ов метренарир в	etween 1 and 0.
il) Fuzzy sets are represented		
iii) Fox example, number of care	forming puffic	eignals at a
particular time out of all	cars present will	have membership
value between co,17		
iv) Partial membership exists who	er we wpex of one	fuzzy det can
also he a port of other fu	zzy sets in the sa	me universe.
u) The degree of membership on t		
fuzzy truth represents membershi		
vi) A fuzzy set A~ in the anive	reso of discourse U	can be defined.
		And the second

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	as a	set of ordered pairs and is given	by,
	à =	§ (2, Uñ (x)) 126x }	No and the second secon
		The state of the s	with a boo
	24 Differ	ence between fuzzification and de	efus france
Pns	8 ty - 4		Defuzzitication
	Key	Fuzzification	Deguzato
11			and of reduung
	. Definition	It is the process of transforming	It is the process of assistant
		a crisp set to a fuzzy set on	a juzzy get une
N.	-	a fuzzy set to fuzzion set	member
2	10t	a sould the first	and desired a second
ره	Pumpose	It convents a precise data into	it converts an impresse data
		imprecise data	into preinse data
		6.3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
46	Example	VOLE Meten	Steppen motor
		April 19 man - 1 may the	makida oa waadi ku
44	methods	Inference , Mank ordering, angular	maxinum membership function,
	mea.	fuzzy sets neural network.	centraid method, weighted
		2. 5815 HW	average method, center of sumb.
5>	Complexity	It is easy.	quite complex to implement.
			t prove as on a little
64	Approach	It uses if then rules to fuzzify	uses center of granty methods to
		the viusp value.	
	1	Sec - December with Wine Un	Ampella Mar
		Production of the Control of the Con	value late ere
) 11		the 2 fuzzy sets	
3)			
		111.0 + 0.75/1.5 + 0.3/20 + 0.16/2.	
		11.0 + 0.6/1.5 + 0.2/2.0 + 1.0/	
	Find the	following: 1> BIUBS 3> 1	
	ob so h	5> BII B2 6> E	BIU B27 to 1880 / //
1			

	1 UB2 = max [ MB1(x) MB2(x)]
A08: 1. B	= { 1/1.0 + 0.75 /1.5 + 0.3/2.0 + 0.15/2.5 + 0/3.0 }
The grant of the state of the s	
	1 n Bz = min [ UB, (x), UBz(x)]
2. B	10 B2 = min [ UBI(2) , 502 12:5 + 0:1/2:5 + 0/3:03
	= 3 1/10 + 0.6/1.5 + 0.2/2.0 + 0.1/2.5 + 0/3.03
3. 81	= 1- up(x)
	= 3 01:0 + 0.25/1.5 + 0.712.0 + 0.85/2.5 + 1/3.03
4. B2	= 1- UB2(a)
	= galio+0.4/1.5+ 0.8/2.0+0.9/2.9+4/3.03
5. Bil	B2 = B, D B2
	= {1/1.0+0.4/1.5+0.3/2.0+0.15/2.5+0/3.03
g. Bi U	$B_2 = \overline{B_1} \cap \overline{B_2}$
	= {011.0+ 0.25/1.5 + 0.7/2.0+ 0.85/2.5 +1/3.03
	The state of the s