		-
	Name : Minad Rao	- Acoustic Communication of the Communication of th
	class: Dean	
	Rell No.: 57	
-		
	ASSIGNMENT NO. 1	
	Decision Theony	
A\.		
<i>₽</i> 1.) ··	
	Estimated sales (In unit?)	
	74/10 of shampoo 15000 15000 5500	
	Edd quampes 30 10 10	
· · · · i	thing them bear 40% 15	
	Delve shamper with 55 min 20, my 300	
	(i) Haxmin beinciple	
	Estimated Sales (In Units) Hinhow	ım
	, , , , , , , , , , , , , , , , , , , ,	
		···
	Egg shampsu 30 10 10 10	
	Clinic shampro 40 15 5	
	Delare epampae 22 3	
	The state of the s	
All Provide American	Hax (10,5,3) = 10. since the maxmim pay-off 13 10 units, the monketin	3
To the state of th	manager has to change Egg shamper by Haxmin sule.	0_
ering the state of	The state of the s	
	win Alnimax bainsible and of the formal and and	
		· · ·
Security and security of the s	Estimated sales (In Units) Haxm	
	Estimated sales (In Unit) Haxm	
	Estimated sales (In Units) Haxm	4
	Estimated sales (In Unit) Haxm	44

FOR EDUCATIONAL USE

Sundaram

Manager has to choose Egg shamper by minimax oute.

MAN CONTRA

ciii) Laplace poinciple

	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Estimated	gales Un	(Stinu	MANOSE
	Then of shampen	15000	10000	5600	Pay 84
Maddidd Chwran add Chlady Carry na ywyan	Edd apamper	30	10	10	16.67
3 5	Clinic shampeo	40	14	5	20
	Deluxe shampeo	55	20	3	26

manager has to theore Deluxe shamped by Laplace aute.

(iv) Hunwicz porinciple

1 1 1 1 1 1 1

: Meighted avoide = x x (maxin elow) + (1-x) x (min in elow)

lanides & = 0.75

	Eif	Meighted			
Typen & Shambro	1,6000			2000	Mode
Edd apawbao	30	1100	10	10	25
My Shampao	40		18	5	31.25
Depre Spampao.	55	1.17	20	.41. 678	7. 142
, 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1	139 180	0 7	7	m de total	7 7 30 4

Max (25, 31.25, 42) = 42. since the maximum payoff is 42 unit, the marketing manager has to those Deloxe chamber by Husiwicz aute.

(v) Regnet Table bainciple

real real residence

Echimated sales an Unit

who el spampes	19100	10000	5000
Edd mumpan	i Series de la constante de	/ 6	Þ
clinic shamper			TO THE STREET
Deloxa apanspeo			

Payoffs Table: 03.

7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Ethingted	conditional Pard	it (Rs.)
A V A F	Rainfall	chap A	costo 8	(not c
	High	8000	8200	BEDD

Hedium 4860 4860 5 620 5000 LOW

ii) Haxmin brinciple

Estimated (modificana) part (Rs.)

Rainfail	Web A	pop B	(map c
High	2000	6560	2000
Hedium	4500	AKEO .	BOO
LÓW	2500	. 9680	4600
Herod mumin	2500	\$1500	4500

Max (2000, 3500, 4000) = 4000. Since the maximum payoff is 4000 ks, the former should blant wast a using Hairmin wule.

The state of the s

ciis Laplace poinciple

	Eshmated	(cuquena)	buth 1887
Rain fall	(GIA) A	Coret B	(orap c
High	8000	3300	5600
Hediom	4500	4500	5000
Line	Z000	. REEO	4000
marage sortet	4835.33	4333.33	4666.67

The done of the

Hax (4833.33, 4333.33, 4666.67) = 4833.33. Since the maximum boyoff is
4833.33 Rs, the former should blank the both A using lablace sule.

Fuzzy set and Relations.

B1. $A = \{ (1,0,1), (2,0,5), (3,0,6), (4,1,0), (5,0,1), (6,0,2) \}$

Union: (composable house for a 4 posson family on small

AUB = \$ (1, max (0.1,1)), (2, max (0.5,0.8)), (3, max (0.6,0.4)),

(4, max (0.1,1)), (5, max (0.7,0)), (6, max (0.2,0)) }

= \$ (1,1), (2,0.8), (3,0.8), (4,1), (5,0.7), (6,0.2) }

Intersection: (em bootable house for 4 forson family and small

An B = \pm (1, min (0.1;1)), (2, min (0.7,0.8)), (3, min (0.2,0.4)),

(4, min (0.1;1)), (5, min (0.7,0)), (6, min (0.2,0)) \(\frac{2}{3} \), (1,0.1), (5,0), (6,0) \(\frac{2}{3} \)

82. $A = B = \pm 1,2,3,45$ Relation $R = R + \pm (a,b) + b = a+1, a,b \in A,B = 3$ $R = \pm (1,2), (2,3), (3,4) = 3$

Suntaram

FOR FINICATIONAL UST

Rdahen	matrix		*	/1	٢	6	,	•	9	8	7
				1	1	0	. 1	0		0	.1
				1		0	1	0	O	1	1.1
				4	,	0	3	0	0	0	

(i) Hax min temposition

in Hax booked composition

: ((c, A) = may (R(+, A), T(A, S))

			7 No.					
	V	5, 3, 5,	-84					
	Pı	0.15 0.2 0.61						
	P2	672 60 500	6.71					
	P3	13.0 8.0 16.0	0.81					
	P4	0.8 0.8 0.63	0.21					
		1 83						
BA.	A = 4 1/2 + 0	165/4+ 0.5/6 + 0	35/8 + 0/103					
	1.4	0.35/4 + 0.5/6 + 0						
		1 1	7 3 - 1 - 1					
	in AUB = max & A(N), B(N) &							
	= \$ 1/2 + 0.65/4 + 0.5/6 + 0.65/8+ V10 3							
		ال ال						
	\vec{m} $A \cap B = min$	EAIN), BIN) 3	2 - 2 - 1 - 1					
	= ₹ 0/2	+ 0.35/4 + 0.5/64	0-35/8 + 0/10 3					
	(N) A - 1 - A (N)		satisfic of					
	= 2 0/2	1 035/4 + 0.5/6+	0.65/8 + 1/10 3					

14 14 114 6

B = 1 - B(N) (vi) £ 1/2 + 6.65/4+0.5/6+0.35/8+0/103

(V) AnB = min & A(W), B(W) & = 4 0/2+0 35/4+ 05/6+0 35/8+0/103

(41) AUB = max (A(W), B(W) ? = 5 1/2+0-65/4 + 0.5/6+0.65/8 + 1/10 }

(vii) AUB = AOB (De Hongan's Law) 7012+0-35/4+0-5/6+0-35/8+0/103

Sundaram

PORT DUCATIONAL USE

1. 1 4 3. 41