M Talka Yourity	22K-5146	Date:
	rent # 2	
Artificial	Intellyone.	
	V	
Question # 2 : Dry Run for	Genetic Alfrithm.	
Odn.	<u> </u>	
Times.		
T1: 8, T2: 4; T3:7, T4:6,	T5:3, T6:9, T7:5.	
Facility Capacity.		
F. : 24, F2: 30, F3: 28		
According & to be given cut o	Onto a	
Cost Calculation: Cost = Cost		
G.A. Parameters:		
Pop Size: 6 chromosomes.		
Conser Rate: 80%		
Mutation Rate: 20%.		
Selection: Rullete Weel.		
Grosover: One point-		
Modeton: Swap-Modeton.		
Fitnes: Total Cost + penalty (if	apacity violated, penalty = 10	O On execus hi
Initial Populations CHI		
[1,1,1,1,1,1,2] [2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,	2,2,27, [3,3,3,3,3,7, [1,7,3,1,2,3
ER. 3. 1, 23, 1, 27 [3, 1, 2, 3	3,1,2,3]	
Filmers:		
CH2 = Cost : 446 , Penaly : 180	100, Tithus = 18446.	
CH2 = C = 446, P = 12000 , I	= 12446	-
CH: 2 C= 454, P: 14000, F	= 14454	
CH 1 491 F = 491 (H	5= C= 453 F-453/C+	11:-(-45)

Step 2: Solution (Rullote What) P-1 = (1/fitness-1)/ 2(2/fitmes-]) p1 = 0.0079, p2 = 0.0117, p3 = 0.0100, p4 = 0.3291, p5 = 0.3203, p6 = 0.3210 pairs: (Chy, Ch6), (Ch5, Ch4), (Ch4, Ch5) 8tep 3: Crisines 1801.). is (Chugche). Point & 4 01: [1,2,3,1,1,2,3], 02: [3;1,2,3,2,3,1]. ii, (Chs, 6h4), Point = 2. 0.8: [2,33,1,2,3,1]: 04: [1,2,1,2,3,1,2]. iii) (Chy, Chs): Point = 5 05: [1,2,3,1,2,1,0], 06: [2,3,1,2,3,3,1]. Step 42 Motorin (201.) 02, 8WAP T2 & T5 -> [3,2,2,3,1,3,2] 03: 8WAP 714T4-> [1,3,3,2,2,3,1] 06: SWAP THETT -> (7,3,1,1,33,27 Rest, No Matation. Step: 6: New population: 01: 436, 02: 456, Q: 437, O4: 429 (best), O5: 437, O6: 474. Tinitial Best: 441 ((h4)

New best: 429 (04:[1,2,1,2,3,1,2].

Owerhion 46:
Post(a): a soll
1 Players: Defenden (Mare, Monintze Seemity), Attacker (Min, minimize dange)
2. Decision Making: Defender Uses Minima to manimize security against
2 Decision Maling: Defender Uses Minima to manimize security against Attackers worst move, Attackers minimize defenders & security.
3: Stochestic Elevants, josce Organder to use apreched values, balance Resources.
Part (b): Tree. BF= Britfore, PA = Phiship, ZE = Zendy, FN= Fale, RA = Red.
Part (b): Tree. BF: Britfore. PA: Phiship, ZE: Zendy, FN: Fale, RA: Red. Mon Defender)
Deploy fireHall systems greek.
RA(5) RA(5) RA(5) RA(6) RA(6) RA(6) RA(6) RA(6) RA(1) RA(1) RA(1) RA(1) RA(1)
BF(4) PA(7) ZE FA(6) PA(3) ZE FA(7) TO THE PA(3) ZE FA(7)
Sucus(2) Fail (8)
S(3) F(7) S(0) F(5)