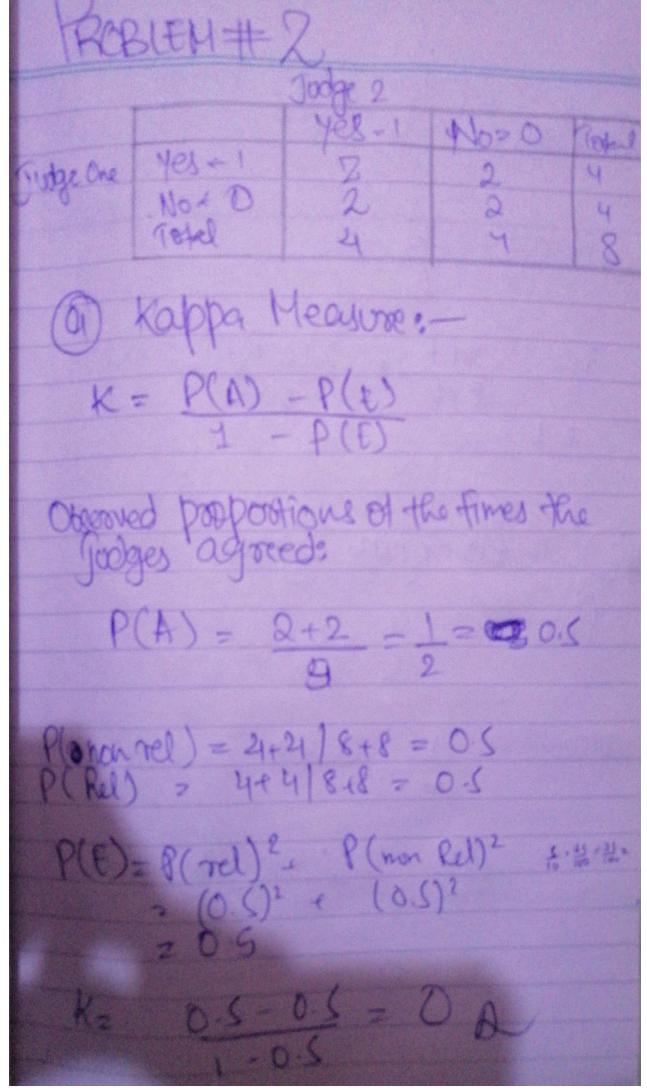
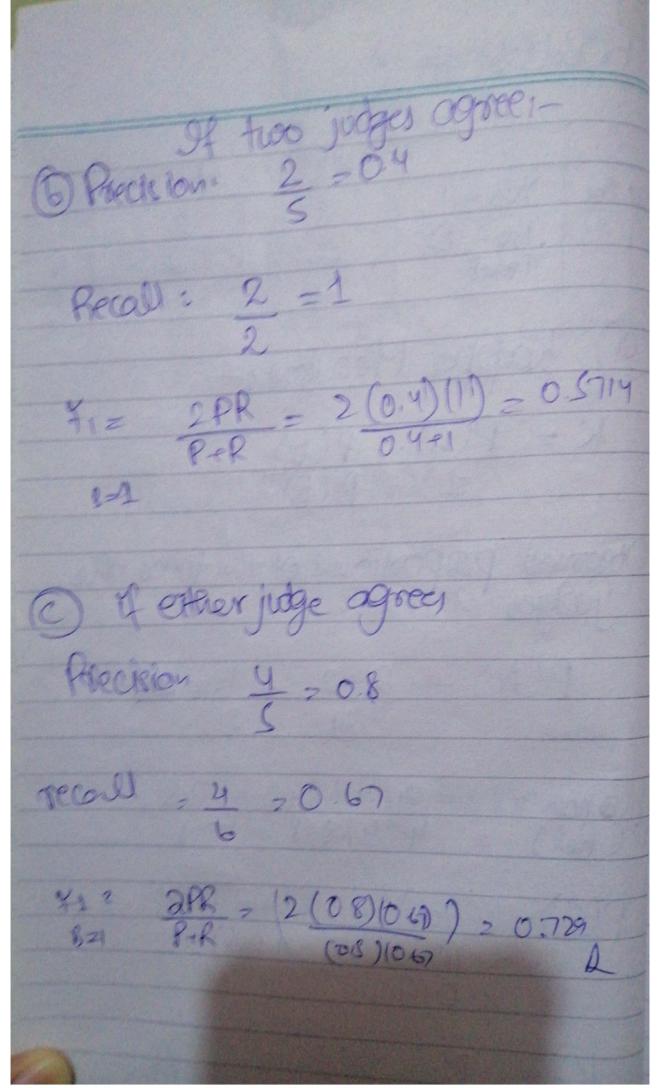
	PROBLEM #1						
	O Comulative Gain: (CG)						
	to the second of						
	CG= Zreli=2+0+2+2+1+1+1=9						
	for $Q_2$ :						
CG - Z reliz R+ 2+2+1+1+0+0=S							
121							
6) Dis count Commodine Gains-							
	** Dockson	PELI	W/2 (1+1)	rel / wgili			
4	4	2	A second of the	2 \$			
3	6	2	1.585 2	0			
4 5	4	2 1	2.322	0.3811			
7	8	1	2.807	D 356)			
	DCG=Z	reli		0-33			
	1 12	log, (i+1) =	2+0+1+0.861+	=49372b			
5. A. C.	Scanned with CamScanner						

Fex 9/2: DGG						
A STATE OF THE PROPERTY OF THE	We will be a second of the sec	LOG 2 (7+1)	rocli/1092(1-1)			
1 000		install production of the principal of a service of the state of the service of t				
3 2		en e	<u></u>			
3	2	1,525	261			
2 8	2	2				
2	Y	2.322	0.430			
4 5	and a single diagraphic data and a single diagraphic and a single diagraphic data.	2.585	0.3868			
8 9		2.867				
11	anne ann amhain cuin in aite mailte an an cuin in ann an ag leich a mhain, in an ann aid aid dh' an aire a' cheart.	3				
$DCG = 2 \frac{1}{121} \frac{1}{1$						
(2) Normalized DCG:						
for a: 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
1 1.383 2 )9212016						
nDCG = 4.937 = 2003 0.908  TDCG = 435						

for P2: for P3: for



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HOBLEM#3 Roechio Ataportam:ofm = ago + Bt & dies 40] = <0.61,0.71,0.31,0.21,0.55,0.81,0.4 2 dj = < 0.11, 0.21, 0.11, 0.11, 0.12, 0.12, 0.01> + 10.2) (<0.61,0.71,0.31,0.21,0.55,0.8), - \$ (0.4) (<0.11,0.21,0.11,0.11,0.12,0.12, Jm= <-3×153, -0.015, -0.013, -0.029, -0.0103 0.02, 0.03347

